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PERSONAL.

Mr. W. W. Barnes has been elected Superintendent of Construction of the water-works plant of Healdsburg, Cal.

Mr. Myron E. Edwards, Jun. M. Am. Soc. C. E., has opened an office as civil engineer at 20 Nassau St., New York city.

Mr. P. H. Irwin has been appointed Assistant Chief Engineer of the Baltimore & Ohio R. R., with headquarters at Baltimore, Md.

Mr. C. A. Christofferson has been appointed Signal Engineer of the Chicago Great Western Ry., with headquarters at St. Paul, Minn.

Mr. John C. Beye has been appointed Division Engineer of the Kansas Division and branches of the Union Pacific R. R., vice Mr. A. K. Shurtleff, resigned.

Mr. C. P. Adams, Superintendent of Telegraph of the Great Northern Ry. Line, has resigned to accept a like position on the Central R. R. of New Jersey.

Mr. Samuel Potts has been appointed Master Mechanic of the Los Angeles & Redondo Ry., with headquarters at Redondo, Cal., to succeed Mr. W. N. Best, resigned.

Mr. F. H. Trevithick, Mechanical Engineer of the Egyptian State Railways, is now in this country, to investigate American railway practice and locomotive construction.

Mr. A. C. Hone has been appointed Superintendent of Motive Power and Rolling Stock of the Evansville & Terre Haute R. R., with office at Evansville, Ind. He succeeds the late Mr. John Torrance.

Capt. Robert McCulloch, formerly Superintendent of the National Railway lines of St. Louis, Mo., has been elected General Manager of the Chicago City Ry., to succeed the late Menard K. Bowen. Mr. C. N. Duffy, of St. Louis, has been elected Auditor.

Mr. L. C. Fritch, Engineer of Maintenance of Way, of the Mississippi Division of the Baltimore & Ohio Southwestern R. R., has been appointed Superintendent of the same division, with headquarters at Washington, Ind., vice Mr. H. C. Barnard, resigned.

Mr. E. E. Nickson, who has been the Boston Sales Agent for the Pittsburg Terra Cotta Lumber Co., will become the General Sales Agent of the company, on Oct. 1, with headquarters at Pittsburg, Pa. A new representative for Boston has not yet been appointed.

Mr. W. B. Poland has been appointed Division Engineer of the Louisville & Mississippi divisions of the Baltimore & Ohio Southwestern R. R., with headquarters at Washington, Ind., in addition to the position of Engineer of Construction, previously held.

Rear Admiral George C. Remey, in command of the navy yard at Portsmouth, N. H., has been selected to succeed Rear Admiral William T. Sampson as Commander-in-Chief of the naval force on the North Atlantic station. Admiral Sampson will be assigned to shore duty.

Messrs. Frank Miles Day, of Philadelphia, and Thomas R. Kimball, of Omaha, architects, have been invited by the Secretary of the Treasury to assist Supervising Architect James Knox Taylor in examining the plans for the proposed custom house for New York city on Sept. 18.

Prof. L. G. Carpenter, of the civil and irrigation engineering department of the State Agricultural College, at Fort Collins, Colo., has been elected Director of the Agricultural Experiment Station. He has refused to become a candidate for the presidency of the State Agricultural College, preferring to retain his present position.

Mr. John McNeal, Jr., has been elected City Engineer of Easton, Pa., to fill the unexpired term caused by the resignation of Mr. H. R. Fehr, M. Am. Soc. C. E. Mr. Fehr has accepted the position of Superintendent of the Easton, Palmer & Bethlehem St. Ry., with headquarters at Easton.

Mr. W. E. Dauchy, Superintendent of Maintenance & Construction of the Chicago, Rock Island & Pacific Ry. (lines west of the Missouri River), has been transferred to a similar position for the lines east of the Missouri River, with office at Chicago, Ill. He succeeds Mr. W. K. McFarlin, who has accepted the position of Chief Engineer of the Delaware, Lackawanna & Western R. R.

Mr. Paul K. Brawd, Chief Engineer of the Russian Electric Co. Union, of St. Petersburg, Russia, sailed for France on Sept. 2, on the steamer "La Touraine." He is to return to the United States in December to arrange with manufacturers for the representation of their interests in Russia during 1900.

Mr. Arthur W. Trenholm, Superintendent of the Northern Division of the Chicago, St. Paul, Minneapolis & Omaha Ry., has been appointed Superintendent of the Nebraska Division, with headquarters at Omaha, Neb., in place of Mr. H. S. Jaynes, assigned to other duties. Mr. W. C. Winter, Assistant Superintendent, has been transferred from the St. Paul & Sioux City Division to the Northern Division, and Mr. S. G. Strickland has been appointed as his successor.

OBITUARY.

Mr. Charles A. Danolds, once a prominent canal and railway contractor, and the builder of the Elmira Reformatory, died at Albion, on Sept. 4.

Mr. Peter N. Nelson died at his home in New York city, on Aug. 29, aged 77 years. After being employed in several machine works, he took charge of the works of A. B. Wiltse, erecting plants at Leeds, Preston Hollow, and Bristol. He also made the working models for the Bullock paper feeder and invented the endless chain and friction-clutch for hoisting ice, now used by every ice company on the Hudson. Later he entered the employ of the North River Iron Works, and shortly after became Chief Engineer of the United States Public Stores. Mr. Nelson was the first man to organize an engineers' association of New York. He was a charter member of the Phoenix Association No. 24, National Association of Steam Engineers, and also of the Mechanical and Practical Engineers' Bureau.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 5 to 7. At Cincinnati. Secy., John Fisher, Hamilton, O.

NATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 5 to 7. Wilmington, Del.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 12. Annual meeting, Philadelphia. Secy., Wilson S. Howell, P. O. Box 114, Newark, N. J.

NEW YORK STATE STREET RAILWAY ASSOCIATION.
Sept. 12, 13. At Ithaca, N. Y. Secy., H. A. Robinson, Solicitor Metropolitan Railroad Co., New York city.

ROAD AND TRACK SUPPLY ASSOCIATION.
Sept. 12 to 14. Annual meeting at Detroit. Secy., W. J. Alexander Brown, 24 Park Place, New York.

MASTER CAR AND LOCOMOTIVE PAINTERS' ASSOCIATION.
Sept. 12 to 14. Annual meeting at Philadelphia. Secy., Robt. McKeown, Erie R. R.

ROADMASTERS' ASSOCIATION OF AMERICA.
Sept. 12 to 15. Annual meeting at Detroit. Secy., J. B. Dickson, C. & N. Ry., Sterling, Ill.

NEW ENGLAND WATER-WORKS ASSOCIATION.
Sept. 13 to 15. At Syracuse, N. Y. Secy., J. C. Whitney, Newton, Mass.

LEAGUE OF AMERICAN MUNICIPALITIES.
Sept. 19 to 22. At Syracuse, N. Y. Secy., B. F. Gilkison, New York city.

AMERICAN SOCIETY OF RAILWAY SUPERINTENDENTS.
Sept. 20. At Detroit. Secy., C. A. Hammond, Asbury Park, N. J.

CANADIAN ROADMASTERS' ASSOCIATION.
Sept. 20. Annual convention at Toronto, Ont. Secy., J. Drinkwater, C. P. Ry., Winchester, Ont., Canada.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 25. Annual meeting, San Francisco, Cal. Secy., R. W. Raymond, 99 John St., New York city.

EASTERN MAINTENANCE OF WAY ASSOCIATION.
Sept. 26 to 29. Portland, Me. Secy., F. C. Stowell, B. & M. R. R., Ware Mass.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 3 to 5. At Toronto, Ont. Secy., David L. Fulton, Allegheny, Pa.

PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 4, 5. At Lancaster, Pa. Secy., S. P. Light, Lebanon, Pa.

OHIO ELECTRIC LIGHT ASSOCIATION.
Oct. 10-12. At Cleveland, Ohio. Secy., Samuel Scovil, Cleveland, O.

AMERICAN RAILWAY ASSOCIATION.
Oct. 11. At New York. Secy., F. W. Allen, 24 Park Place, New York.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 17. At Chicago. Secy., T. C. Penington, Chicago, Ill.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 17. At Detroit. Secy., S. F. Patterson, B. & M. R. R., Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 18 to 20. At New York. Secy., Alfred E. Forstall, 58 William St., New York.

COMING LOCAL MEETINGS.

ENGINEERS' CLUB OF MINNEAPOLIS.
Sept. 7. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

CENTRAL RAILWAY CLUB.
Sept. 8. At Buffalo. Secy., H. D. Vought, 114 5th Ave., New York city.

CHICAGO ELECTRICAL ASSOCIATION.
Sept. 8. Secy., Cloyd Marshall, 1310 Monon Bldg., Chicago, Ill.

ST. LOUIS RAILWAY CLUB.
Sept. 8. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Sept. 8. At San Francisco. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

ENGINEERS' CLUB OF COLUMBUS.
Sept. 9. Secy., H. M. Gates, 12½ North High St., Columbus, O.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Sept. 11. At Buffalo. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

CIVIL ENGINEERING CLUB OF CLEVELAND.
Sept. 12. Secy., W. H. Searles, Case Library Bldg., Cleveland, O.

DENVER SOCIETY OF CIVIL ENGINEERS.
Sept. 12. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

NEW ENGLAND RAILROAD CLUB.
Sept. 12. At Boston. Secy., Edw. L. Jones, P. O. Box 1158, Boston, Mass.

NORTHWEST RAILWAY CLUB.
Sept. 12. At Minneapolis. Secy., T. A. Fogue, Soo Line, Minneapolis, Minn.

ENGINEERS' CLUB OF ST. LOUIS.
Sept. 13. Secy., Richard McCulloch, 2101 N. Spring Ave., St. Louis, Mo.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Sept. 14. At Atlanta. Secy., F. A. Charfoit, P. O. Box 13, Savannah, Ga.

NORTHWESTERN TRACK AND BRIDGE ASSOCIATION.
Sept. 15. At St. Paul. Secy., D. W. Meeker, St. Paul, Minn.

ENGINEERS' CLUB OF CINCINNATI.
Sept. 19. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Sept. 19. At Pittsburg. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Sept. 20. At New York. Secy., C. W. Hunt, 220 W. 57th St., New York city.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Sept. 20. Secy., S. E. Tinkham, City Hall, Boston, Mass.

NEW YORK RAILROAD CLUB.
Sept. 21. At New York city. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

MONTANA SOCIETY OF CIVIL ENGINEERS.
Sept. 23. At Helena. Secy., Albert S. Hovey, Helena, Mont.

AMERICAN STREET RAILWAY ASSOCIATION.—The 18th annual meeting will be held at Tattersall's Building, Chicago, on Oct. 17 to 20. Papers will be presented on the following subjects: "Maintenance of Car Equipment;" "Modern Street Railway Shops, Their Design, Machinery and Shop Practice;" "Train Service and Its Practical Application;" "How Can Investments in Street Railways be Made Secure and Remunerative;" "Construction and Maintenance of Street Railway Tracks." There will also be an extensive exhibition of supplies and appliances for street railways.

LEAGUE OF AMERICAN MUNICIPALITIES.—The annual convention will be held at Syracuse, N. Y., Sept. 19 to 20. Discussions will be held on the following subjects: Civil service; municipal ownership; municipal charities; the special assessment system; the contract system in making public improvements; water supply; drainage; sewerage, and the disposal of garbage. A feature of the convention will be the question box, into which delegates will be asked to deposit written inquiries pertaining to any municipal matter upon which they desire special information. An extra session will be devoted to answering the questions.

NEW ENGLAND WATER-WORKS ASSOCIATION.—The eighteenth annual convention will be held at Syracuse, N. Y., Sept. 13 to 15, 1899. On the afternoon of Tuesday, Sept. 12, through the courtesy of Supt. Bailey and Engineer Hazen, members will have an opportunity to inspect the large sand filters recently completed for the Alabny waterworks. Barges are to meet the Boston train, which arrives in Albany at 2.43 p. m., and lunch will be served in the pumping station at 3 o'clock, after which the construction of the filters will be explained by Mr. Allen Hazen, C. E.

The following papers are on the programme: "The Method of Removing Vegetable Organisms from the Water in the Distributing Reservoir of the City of Syracuse," W. R. Hill, C. E., Supt. and Engineer, Syracuse, N. Y. This will be followed by a drive through the city to the distributing reservoir, where the operation of removing vegetable organisms from the water can be seen. Samples of the organisms in different stages will be on exhibition. Upon return to the city an exhibition will be given by the fire department of water streams from engines, water tower and direct from hydrants. "Informal talk, illustrated with lantern slides, describing the new filter at Albany, N. Y.," Allen Hazen, C. E., New York city. "Flood Water Channel of the Altoona, Pa., Reservoirs" (illustrated with lantern slides), Chas. W. Knight, C. E., Engineer Stanwix Engineering Co., Rome, N. Y. "The New Hydraulic Laboratory of the College of Civil Engineering, Cornell University" (illustrated with lantern slides), Prof. E. A. Fuertes, Director College of Civil Engineering, Ithaca, N. Y. "Engineering in Connection with the Detroit Water-Works," Prof. Gardner S. Williams, Engineer in charge of Hydraulic Laboratory, Cornell University. "A Paper on Stand-Pipes," Byron I. Cook, Supt., Woonsocket, R. I. "Care of Fire Hydrants in Winter," Geo. I. Bailey, Supt., Albany, N. Y. "The Glasgow Water-Works," James M. Gale, C. E., Engineer in Chief Loch Katrine Water-Works, Glasgow, Scotland. "Covered Reservoirs," Freeman C. Coffin, C. E., Boston, Mass. "The Buffalo Water-Works," Louis H. Knapp, Engineer Water-Works, Buffalo, N. Y. "Methods of Assessment and Collection of Water Rates," F. H. Crandall, C. E., Supt. and Treasurer, Burlington, Vt. "A Rumpus in Collecting Meter Rates, Causes and Consequences," Geo. F. Chace, Supt., Taunton, Mass.

J. C. Whitney, Secy., Newton, Mass.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

DRAFTING ROOM FURNITURE.—F. W. Emerson Manufacturing Co., Rochester, N. Y. Paper; 9 x 6 ins.; pp. 47; illustrated.

This furniture includes all manner of drafting tables, blue-print apparatus, filing cabinets, etc. Each item is handsomely illustrated, and dimensions and prices are given.

CARBONIZING COATING.—The Gohem Mfg. Co., Canton, O. Pamphlet; 9 x 6 ins.; pp. 20; illustrated.

This pamphlet contains illustrations of a score or more of bridges and buildings the metal work of which has been painted with the protective compound sold by the above company under the name of "Carbonizing Coating." The illustrations include some important structures.

LUBRICATORS AND STEAM SPECIALTIES.—Michigan Lubricator Co., Detroit, Mich. Paper; 7¾ x 10¼ ins.; pp. 90; illustrated.

This is a catalogue and price list of a variety of steam specialties, including numerous sight-feed and other lubricators, oil cups, grease cups, water gages, try and gage cocks, flue scrapers, boiler oil feeders, gas and oil gages, etc.

EXTENSIBLE TRENCH BRACES.—Dunn Manufacturing Co., Pittsburg, Pa. Paper; 7 x 5 ins.; pp. 12; illustrated.

The use of these braces for supporting the sides of trenches is now so common that they need not be described. But this last catalogue shows, by photogravures, their late application in various localities; and also describes and prices the brace itself.

STAMPS, SEALS AND STENCILS.—J. F. Tenney Co., 70 Madison St., Chicago. Paper; 5¾ x 8¾ ins.; pp. 32; illustrated.

This is a catalogue and price list of rubber stamps, dating stamps, check perforating and canceling machines, notary and corporation seals and seal presses, ticket punches, stencil plates, numbering machines, steel stamps, and the Staats money changer and storage tray.

GLASS SIGNAL DISKS.—John C. Baird, 83 Franklin St., Boston, Mass. Sheet circular; 6½ x 10½ ins.

This is a lithograph reproduction of a clipping from the Boston "Herald," of Aug. 15, in reference to the new yellow glass recently adopted for the distant signals of the New York, New Haven & Hartford R. R., and now being tried on other railways in this country and in England, France and Australia.

PAVING BRICK.—Purington Paving Brick Co., Galesburg, Ill. Paper; 8½ x 6 ins.; pp. 54; illustrated.

These vitrified paving brick are made from a finely-ground shale, of which the Purington Co. owns a deposit 75 ft. deep and covering about 100 acres. In the ten years that this brick factory has been in operation, it has manufactured and sold sufficient brick to pave over 200 miles of streets in 56 several cities and towns. This circular tells what the users of this brick think of it.

STORAGE AIR BRAKE FOR ELECTRIC CARS.—G. P. Magann Air Brake Co., Campau Bldg., Detroit, Mich. Paper; 6 x 9 ins.; pp. 24; illustrated.

In this brake system no compressor is carried on the car, but the air is compressed at the power station and charged into reservoirs on the cars. The pressure in the storage reservoir is 300 lbs., reduced to 30 lbs. in the auxiliary reservoir, from which the air is led to the brake cylinder. The system is in use on the Detroit and Pontiac electric railway.

HYDRAULIC JACKS AND TOOLS.—The Watson-Stillman Co., New York. Paper; 9 x 6 ins.; separate catalogues; illustrated.

These catalogues are issued in sections covering special hydraulic tools, and they are subsidiary to an "Illustrated Index." That on hydraulic jacks gives illustrations, power, dimensions and prices of all types of this tool, together with directions for its use and repair. The illustrated index shows the form of tool, its name and sheet number, and the method of making inquiry. Upon receipt of 5 cts. in postage a copy of either pamphlet will be sent to those interested.

WESTINGHOUSE ELECTRICAL MACHINERY.—Westinghouse Electric & Mfg. Co., Pittsburg, Pa. Paper; 7 x 10 ins.; pp. 16; illustrated.

Multipolar Generators and Motors.—This is Catalogue No. 147—D, and contains descriptions and tables of dimensions of direct-current machines for lighting and power.

Switches.—Pp. 12; illustrated. Catalogue No. 231 of the above company, describing switches of the adjustable jaw type for voltages not exceeding 600 volts.

Switches for High Potential Alternating Circuits.—Pp. 10; illustrated. This is Catalogue No. 189—B of the same company. It describes their new type of plunger switch.

WOODCUTTING TOOLS AND BICYCLE TOOLS.—Fox Machine Co., Grand Rapids, Mich. Three pamphlets; paper; 3½ x 6¼ ins.; pp. 16, 12 and 16; illustrated.

One of these little pamphlets is devoted to universal trimmers for cutting wood for patterns, etc., the machines being mounted on benches or cast-iron standards. In the small sizes the knives are operated by levers, while in the large ones long handles are usd with a chain and sprocket motion. Another pamphlet is devoted to dado cutters, each circular saw having three or four vertical and diagonal blades so arranged and toothed as to cut any form of groove. The positions of the saws are adjustible. The bicycle tools shown in the third pamphlet include brazing forges, tube cutters, rim drills, wheel assembling stands, hub drilling machines, etc.

HOISTING ENGINES AND SLATE AND STONE-WORKING MACHINERY.—S. Flory Mfg. Co., Bangor, Pa. Paper, 12x9½ ins.; pp. 99; illustrated.

These high-speed, direct-acting engines are especially designed for contractors and mine work. They are fully and handsomely illustrated, and sizes and prices are given for each type, according to power and intended use; in all about 40 types of hoisting engines are shown. Other machines made include stationary engines, slate and stone sawing machines and slate grooving, drilling and dressing machines. The same firm supplies quarry and slaters' tools, and inclined cableways for quarry work or for contractors' use; derrick fittings, dumping buckets, dipper dredges, boilers, etc. Logging machinery of the most advanced type is furnished and its use described and illustrated. The catalogue concludes with a list of parts numbered for convenience in ordering, and also a cypher telegraphic code for a similar purpose.

CALIFORNIA'S ADVANTAGES.—Southern Pacific Railway Co. Paper, 10x6⅞ ins.; pp. 50; illustrated.

Under the name of "Sunset" the passenger department of the Southern Pacific Railway issues at intervals some very instructive and handsomely illustrated literature descriptive of the resorts, products and industries of the country traversed by its lines. The copy before us, or No. 2, Vol. III., is a special "Los Angeles Edition." It contains many photogravures of buildings, fruit groves, seaside resorts and general views, and useful statistics are given for the prominent towns on the line of the railway, with rates to each, and sample itineraries. In this same number the glories of the Yosemite are set forth in text and pictures, and travelers are told how to get there and how much it will cost. Similar illustrated descriptions are given of San Francisco, Monterey and the Hotel del Monte, Lake Tahoe, Shasta and the Upper Sacramento Canyon, etc. The material contained in this publication is of value throughout to the strangers in California, and the railway company is to be congratulated on the intelligent manner in which it is set forth.

ELECTRICAL INSTRUMENTS AND SUPPLIES.—Central Electric Co., 264 Fifth Ave., Chicago, Ill. Cloth; 8 x 10½ ins.; pp. 537; illustrated.

This is a comprehensive catalogue and price list of a great variety of articles, and forms a valuable reference list, as it is well arranged and contains full details as to prices and dimensions, while a complete system of trade words facilitates the ordering of any of the supplies. The catalogue deals with incandescent and series arc light supplies, such as switches, cut-outs, ceiling buttons, lamp sockets and holders, brackets and house fixtures, outdoor pole fittings, lamps, electric heaters and stoves, etc. Several pages are devoted to construction material, including cross-arms, insulator pins and brackets, glass and porcelain insulators, post hole augers and tamping bars, wire reels, and linemen's tools. Controllers, wattmeters, fuses and other instruments and devices are shown in great variety, and sizes and prices are given of wires and cables. Telephone supplies are also included. At the end of the book are tables of weight, resistance, etc., of wire and cables, followed by an index of the firm's trade words used in ordering material, and also an index of the contents of the book.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Sept. 7.	Hospital plans, Patton, Cal.		Aug. 24
Sept. 7.	Dredging, etc., Union River, Me.		Aug. 10
	Advertised, Eng. News, Aug. 10 to 31.		
Sept. 7.	Museum buildings, New York, N. Y.		Aug. 31
Sept. 7.	Canal, Ottawa, Ont.		Aug. 31
Sept. 7.	Water pipe, New York, N. Y.		Aug. 31
Sept. 7.	Reservoir, Bucyrus, O.		Aug. 31
	Advertised, Engineering News, Aug. 31.		
Sept. 7.	Alarm boxes, Chicago, Ill.		Aug. 31
Sept. 7.	Dormitory building, Trenton, N. J.		Aug. 31
Sept. 7.	Sewer supplies, Beverly, Mass.		Aug. 31
Sept. 7.	Sewers, Erie, Pa.		Aug. 31
Sept. 7.	Greenhouse, Brooklyn, N. Y.		Aug. 31
Sept. 7.	Paving, Buffalo, N. Y.		Sept. 7
Sept. 8.	Bridge, Albany, Ore.		Sept. 7
Sept. 8.	Sewers, paving, etc., Pittsburg, Pa.		Sept. 7
Sept. 8.	Paving, Pittsburg, Pa.		Sept. 7
Sept. 8.	Street improvement, Chicago, Ill.		Sept. 7
Sept. 8.	Drainage, Winnipeg, Man.		Sept. 7
Sept. 8.	Bridge, Winnipeg, Man.		Sept. 7
Sept. 8.	Street signs, Minneapolis, Minn.		Sept. 7
Sept. 8.	Removing snow, etc., New York, N. Y.		Aug. 31
Sept. 8.	River bank improvement, Cincinnati, O.		Aug. 17
Sept. 8.	Paving, Veedersburg, Ind.		Aug. 17
Sept. 9.	Brick paving, Janesville, Wis.		Aug. 17
Sept. 9.	Street improvements, Defiance, O.		Aug. 24
Sept. 9.	Street improvements, Youngstown, O.		Aug. 24
Sept. 9.	Paving, Evansville, Ind.		Aug. 24
Sept. 9.	Electric machinery, East Ham, England		Aug. 24
Sept. 9.	Roadway, West Stockbridge, Mass.		Sept. 7
Sept. 9.	Office building, South Bend, Ind.		Sept. 7
Sept. 9.	Barracks, Winnipeg, Man.		Sept. 7
Sept. 9.	Extension to pier, Boston, Mass.		Sept. 7
Sept. 9.	Curbing, etc., Garfield, N. J.		Sept. 7
Sept. 9.	Academy building, Bakersfield, Vt.		Sept. 7
Sept. 11.	School buildings (2), Boston, Mass.		Sept. 7
Sept. 11.	Bridge, San Jose, Cal.		Sept. 7
Sept. 11.	Sewer, Sycamore, Ill.		Sept. 7
	Advertised, Engineering News, Sept. 7.		
Sept. 11.	Sewers, Flagstaff, Ariz.		Sept. 7
Sept. 11.	Paving, Allegheny, Pa.		Sept. 7
Sept. 11.	Street improvement, Wellston, O.		Sept. 7
Sept. 11.	Street improvements, Indianapolis, Ind.		Sept. 7
Sept. 11.	Road grading, Oakland, Cal.		Sept. 7
Sept. 11.	Electric lighting, Pontiac, Mich.		Sept. 7
Sept. 11.	Breakwater, Oswego, N. Y.		Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 11.	Steamboat, Wilmington, N. C.		Aug. 10
	Advertised, Eng. News, Aug. 10 to 31.		
Sept. 11.	Electric lighting, Pontiac, Mich.		Aug. 31
Sept. 11.	Bridge, Wayne, W. Va.		Aug. 31
Sept. 11.	Paving, Buffalo, N. Y.		
Sept. 11.	Road improvements, Vevay, Ind.		Aug. 31
Sept. 11.	Water-works, Lacona, N. Y.		Aug. 31
	Advertised, Eng. News, Aug. 31 and Sept. 7.		Aug. 31
Sept. 11.	Bridge, Modesto, Cal.		
Sept. 12.	Academy building, Faribault, Minn.		Aug. 31
Sept. 12.	Road improvement, Southport, N. Y.		Aug. 31
	Advertised, Eng. News, Aug. 31 and Sept. 7.		Aug. 31
Sept. 12.	Special castings, Washington, D. C.		
	Advertised, Eng. News, Aug. 31 and Sept. 7.		Aug. 31
Sept. 12.	Breakwater, New York, N. Y.		
	Advertised, Eng. News, Aug. 17 to Sept. 7.		Aug. 17
Sept. 12.	Electric lighting, Cynthiana, Ky.		
Sept. 12.	Dredging, San Francisco, Cal.		Aug. 24
Sept. 12.	Heating, Charleston, Ill.		Aug. 24
Sept. 12.	Heating, plumbing, etc., San Antonio, Tex.		Aug. 24
Sept. 12.	Electric plant, Hackney, England.		Aug. 24
Sept. 12.	Naval supplies, Mare Island, Cal.		Aug. 24
Sept. 12.	Brick paving, Troy, N. Y.		Sept. 7
Sept. 12.	Bridges, Everett, Wash.		Sept. 7
Sept. 12.	Paving, Cincinnati, O.		Sept. 7
Sept. 18.	Bridge, Stockton, Cal.		Sept. 7
Sept. 13.	Retaining wall, etc., Kansas City, Mo.		Sept. 7
Sept. 13.	Brick paving, Lima, O.		Sept. 7
Sept. 13.	Sewer valves, Montreal, Que.		Sept. 7
Sept. 13.	Street cleaning, Oakland, Cal.		Sept. 7
Sept. 13.	Street improvements, Lima, O.		Aug. 24
Sept. 13.	School building, Emmetsburg, Ia.		Aug. 24
Sept. 13.	Railway, Woodford, England.		Aug. 24
Sept. 13.	Street improvements, Hoboken, N. J.		Aug. 17
Sept. 13.	Lock and dam, Mobile, Ala.		Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 13.	Brick paving, Cohoes, N. Y.		Aug. 31
	Advertised, Engineering News, Aug. 31.		
Sept. 13.	Bridge, Bellepoint, O.		Aug. 31
Sept. 14.	Capitol annex, Charleston, W. Va.		Aug. 17
Sept. 14.	River improvements, Richmond, Va.		Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 14.	Water-works, Berryville, Va.		Aug. 24
	Advertised, Eng. News, Aug. 24 and 31.		
Sept. 14.	Water-works, etc., Pyramid Lake, Nev.		Aug. 24
Sept. 14.	Street improvements, Greenville, O.		Aug. 24
Sept. 14.	Dormitory buildings (3), Walker, Minn.		Aug. 24
Sept. 14.	Water power, chimney, etc., New York		Aug. 31
Sept. 14.	Water mains, Birmingham, England.		Aug. 31
Sept. 14.	Bridges, Eaton, O.		Sept. 7
Sept. 14.	Well, Southboro, England		Sept. 7
Sept. 14.	School building, Pittsburg, Pa.		Sept. 7
Sept. 14.	Pipe sewers, Wheaton, Minn.		Sept. 7
Sept. 14.	Paving bonds, Zanesville, O.		Sept. 7
Sept. 14.	Ditch, Oneida, N. Y.		Sept. 7
Sept. 15.	Oil house, San Francisco, Cal.		Sept. 7
Sept. 15.	Sewers, Buffalo, N. Y.		Sept. 7
Sept. 15.	Water and electric plants, Casey, Ill.		Sept. 7
Sept. 15.	Cement sidewalks, Pleasant Ridge, O.		Sept. 7
Sept. 15.	Paving, Buffalo, N. Y.		Sept. 7
Sept. 15.	Settling basin, West Alexandria, O.		Sept. 7
	Advertised, Engineering News, Sept. 7.		
Sept. 15.	Brick building, Marietta, O.		Aug. 31
Sept. 15.	School building, Dubuque, Ia.		Aug. 31
Sept. 15.	University buildings, Salt Lake City, Utah.		Aug. 31
Sept. 15.	Bridge, Van Wert, O.		Aug. 31
Sept. 15.	Channel, Pawtucket, R. I.		Aug. 31
Sept. 15.	White lead, New York, N. Y.		Aug. 31
Sept. 15.	Sewer, Glenville, O.		Aug. 31
Sept. 15.	Road improvement, Bedford, N. Y.		Aug. 31
Sept. 15.	Reformatory building, Bedford, N. Y.		Aug. 24
	Advertised, Eng. News, Aug. 24 to Sept. 7.		
Sept. 15.	Sidewalks, Toronto, O.		Aug. 24
Sept. 15.	Dredging, Newport, R. I.		Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 16.	Dredging, Urbana Creek, Va.		Aug. 17
	Advertised, Eng. News, Aug. 17 to Sept. 7.		
Sept. 16.	Wharf, Boston, Mass.		Aug. 24
Sept. 16.	School building, Cleveland, O.		Aug. 24
Sept. 16.	Bridge, Towes Ferry, Va.		Aug. 24
Sept. 16.	Electric plant, Flandreau, S. Dak.		Aug. 31
Sept. 16.	Shell, Washington, D. C.		Aug. 31
Sept. 16.	Electric bonds, Dillon, Mont.		Aug. 31
Sept. 16.	Brick pavement, Akron, O.		Aug. 31
Sept. 16.	Road, Trinidad, Colo.		Aug. 31
Sept. 16.	W.-wks & electric plant, Lakefield, Minn.		Aug. 31
Sept. 16.	Sewers, Port Clinton, O.		Sept. 7
Sept. 16.	Extension to pier, Boston, Mass.		Sept. 7
Sept. 17.	Wharf, Ft. Washington, Md.		Aug. 24
	Advertised, Eng. News, Aug. 24 to Sept. 14.		
Sept. 18.	Paving, Danville, Va.		Aug. 24
	Advertised, Eng. News, Aug. 24 to Sept. 7.		
Sept. 18.	Paving, Toledo, O.		Aug. 24
Sept. 18.	Dredging, Cape Porpoise, Me.		Aug. 24
	Advertised, Eng. News, Aug. 24 to Sept. 14.		
Sept. 18.	Officers' quarters, Annapolis, Md.		Aug. 31
Sept. 18.	Steam heating plant, Pipestone, Minn.		Aug. 31
Sept. 18.	Hospital building, Auburn, Cal.		Aug. 31
Sept. 18.	Dredging, Wilmington, Del.		Aug. 31
Sept. 18.	Electric lighting, Lorain, O.		Sept. 7
Sept. 18.	Bridge superstructure, Hornsey, England.		Sept. 7
Sept. 18.	Barracks, National Military Home, Kan.		Sept. 7
Sept. 18.	Brick paving, Gallipolis, O.		Sept. 7
Sept. 18.	Macadamizing, Groverhill, O.		Sept. 7
Sept. 18.	School building, New York, N. Y.		Sept. 7
Sept. 18.	Ditch, Ashland, O.		Sept. 7
Sept. 19.	Reservoir, Irvington, N. Y.		Sept. 7
	Advertised, Eng. News, Sept. 7 and 14.		
Sept. 19.	Cement, etc., Washington, D. C.		Sept. 7
	Advertised, Eng. News, Sept. 7 and 14.		
Sept. 19.	Tubular boilers, Binghamton, N. Y.		Sept. 7
	Advertised, Eng. News, Sept. 7 and 14.		
Sept. 19.	Machinery, Puget Sound, Wash.		Aug. 31
Sept. 19.	Stand-pipe, Wilmington, Del.		Aug. 31
	Advertised, Eng. News, Aug. 31 and Sept. 7.		
Sept. 20.	Post Office building, Canton, O.		Aug. 31
Sept. 20.	Buoys, etc., Tompkinsville, N. Y.		Aug. 31
Sept. 20.	River improvement, Galveston, Tex.		Aug. 24
	Advertised, Eng. News, Aug. 24 to Sept. 14.		
Sept. 20.	Superstructure to bridge, Chicago, Ill.		Aug. 3
	Advertised, Engineering News, Aug. 3.		
Sept. 20.	Sulphite mill, Sault Ste. Marie, Ont.		Sept. 7
	Advertised, Eng. News, Sept. 7 to 21.		
Sept. 20.	Bridges, Delphi, Ind.		Sept. 7
Sept. 20.	Electric plant, Heckmondwike, England.		Sept. 7
Sept. 20.	Bridges, Merced, Cal.		Sept. 7
Sept. 21.	Electric plant, etc., Shelburne, Ont.		Sept. 7
Sept. 21.	Lighting, Charleston, W. Va.		Sept. 7
Sept. 21.	Hire of dredge, Mermenton River, La.		Aug. 24
Sept. 21.	River improvements, New Orleans, La.		Aug. 24
Sept. 22.	Sewers, Grand Junction, Colo.		Aug. 31
Sept. 22.	Jail building, Dyersburg, Tenn.		Sept. 7
Sept. 22.	Electric plant, Luton, England.		Sept. 7
Sept. 23.	Dredging, Scituate Harbor, Mass.		Aug. 31
	Advertised, Eng. News, Aug. 31 to Sept. 21.		
Sept. 23.	Block paving, Port Clinton, O.		Aug. 31
Sept. 23.	Heating apparatus, Marietta, Ga.		Aug. 31
Sept. 25.	School building, Gettysburg, S. Dak.		Sept. 7
Sept. 25.	Electric plant, Ilfracombe, England.		Sept. 7
Sept. 25.	County buildings, Los Angeles, Cal.		Sept. 7
Sept. 25.	Bridge, Reno, Nev.		Sept. 7
Sept. 25.	Well (300 ft.), Cullman, Ala.		Sept. 7
Sept. 26.	Dredging, Sayville, N. Y.		Aug. 31
	Advertised, Eng. News, Aug. 31 to Sept. 21.		
Sept. 26.	Jetty work, Port Jefferson Inlet, N. Y.		Aug. 31
	Advertised, Eng. News, Aug. 31 to Sept. 21.		

Sept. 26. School building, Oneida, Wis. .....Sept. 7
Sept. 27. Electric plant, New London, Conn.....Aug. 31
Advertised, Eng. News, Aug. 31 to Sept. 21.
Sept. 27. Sewers, Lorain, O. .....Sept. 7
Sept. 28. U. S. building, Bristol, Tenn. .....Sept. 7
Sept. 28. Removal of wreck, Barnegat Inlet, N.J..Sept. 7
Sept. 28. Brick paving, Ripon, Wis. .....Sept. 7
Sept. 28. Machinery, New Orleans, La. .....Aug. 24
Sept. 28. Heating, etc., St. Paul, Minn.....Aug. 24
Sept. 29. River work, New York, N. Y. .....Aug. 31
Advertised, Eng. News, Aug. 31 to Sept. 21
Sept. 29. Jetty, Los Angeles, Cal. .....Sept. 7
Sept. 29. Street improvement, Greenville, O.....Sept. 7
Sept. 29. Street improvement, Cincinnati, O. .....Sept. 7
Sept. 30. Railroad grading (6 miles), Moultrie, Ga..Sept. 7
Advertised, Eng. News, Sept. 7 to 21.
Sept. 30. Shop buildings, Norfolk, Va. .....Sept. 7
Sept. 30. Steel building, boilers, etc., Turin, Italy...July 27
Sept. 30. Quay wall, Mare Island, Cal. .....Aug. 31
Oct. 1. Bridge, Carleton, N. Y.....Aug. 31
Oct. 1. Electric street railway, Moscow, Russia..Mar. 9
Oct. 1. Extndg water & l't systems, Kamloop, B.C..Sept. 7
Oct. 2. Paving, Toledo, O. .....Sept. 7
Oct. 2. Dredging, Washington, D. C. .....Sept. 7
Advertised, Eng. News, Sept. 7 to 28.
Oct. 2. Electric lighting, Missoula, Mont.....Sept. 7
Oct. 2. Tramway concession, Tiflis, Transcaucasia.Sept. 7
Oct. 2. Electric apparatus, Ellis Island, N. Y. H..Aug. 31
Oct. 3. Court house, New Martinsville, W. Va...Sept. 7
Oct. 3. Removing rock, New York, N. Y.....Sept. 7
Advertised, Eng. News, Sept. 7 to 28.
Oct. 6. Dredging, Boston, Mass. .....Sept. 7
Advertised, Eng. News, Sept. 7 to 28.
Oct. 10. Machinery, Brooklyn, N. Y. .....Aug. 31
Oct. 12. Railway, Pretoria, Transvaal.....Aug. 24
Oct. 30. Railway construction, Yucatan, Mex.....Aug. 31
Nov. 1. Water-works, Nicolaiev, Russia. .....June 15
Nov. 1. Protected cruisers, Washington, D. C.....July 13
Nov. 3. Garbage crematory, Sydney, N. So. Wales.Aug. 17
Nov. 28. Quays, etc., Alexandria, Egypt.....Aug. 10
Nov. 30. Market plans, Nassau, Bahamas.....Sept. 7
Jan. 4. Railway (200 miles), Ceylon .....Sept. 7
No date. Bridge, Goldendale, Wash.....Sept. 7
" . Bulkhead, Stockton, Cal.....Sept. 7
" . Portland cement, St. Nazaire, France...Sept. 7
" . Stone mill building, Sault Ste. Marie, Ont.Sept. 7
Advertised, Eng. News, Sept. 7 and 14.

RAILWAYS.

ALASKA.—Reports state that James Fisch, Ch. Clk. of the Railway Mail Service, is on his way to Valdez, Alaska, to take up the matter of opening an all-American rail route from Valdez to Circle City, via Eagle, Alaska.

BEAVER VALLEY.—This company was incorporated in Pennsylvania, Sept. 5, with a capital stock of $10,000, to construct a steam railway in Beaver county. J. N. Pew, Pres.; Arthur E. Pew and W. S. Miller, all of Pittsburg, Pa., are incorporators.

CANADIAN PACIFIC.—This company is reported to have decided to construct a 65-mile extension of its Crow's Nest Pass Division at once to the property of the British Columbia Copper Co., near Greenwood, B. C. P. A. Peterson, Ch. Engr., Montreal, Que.

CAPE OF GOOD HOPE.—A bill has been introduced into the Natal parliament for the construction of a railway from the Tugela River to St. Lucia Bay, Zululand, 100 miles, to open up the Hlabisa coal fields.——In the Natal government estimates for 1899-1900 appropriations are made for constructing lines from Dundee to Buffalo, at $75,000; Dundee to Newcastle, $20,000; Newcastle to Charlestown, $75,500.

CAROLINA NORTHERN.—We are informed that work is progressing on this line from Lumberton to Marion, S. C., about 38 miles. About seven miles has been graded and is ready for track, which has already been laid to Lumber River and in a short time will be completed to King's Mill. J. H. McRee, Ch. Engr., Lumberton.

CENTRAL OF GEORGIA.—Hardaway, Jones & Co. are reported to have received the contract for building an extension for this system from Columbia, on the Chattahoochee River, to Dothan, Ala., about 18 miles. The extension of the Mobile & Girard R. R. to Andalusia, Ala., which this firm has been building, will be completed about Sept. 10, and the men employed there will then be moved to Columbia.

CEYLON.—Bids are asked by the Crown Agents for the Colonies, Downing St., London, S. W., England, until Jan. 4, 1900, for the construction of a railway from Kurunegala to Kankasantural, in the Island of Ceylon, being an extension of the existing line from Colombo to Kurunegala, and being a distance of about 200 miles. Surveys have been completed. W. Cantrell, Engr. of Way, Colombo, Ceylon.

CHICAGO, BURLINGTON & QUINCY.—Reports state that this company will spend about $2,000,000 this year on improvements to its lines in Illinois, Iowa, and Missouri. At Princeton, Ill., it is cutting down the grade 15 ft. for one mile, and in the valley near Princeton the grade is being raised 18 ft. for one mile. At Buda, Ill., 118 miles west of Chicago, the main tracks are being raised 18 ft. for two miles. This includes the reconstruction of the iron bridge across Coal Creek. Between Kirkwood and Burlington, Ia., the main line is being straightened. Six miles of the present track at that point will be abandoned and the route shortened about one mile. New station grounds will be acquired at Biggsville and Gladstone. In Iowa the company is straightening and cutting down the grade between Mount Pleasant and Ottumwa 35 ft. to the mile for about 35 miles. The line will be shortened 2½ miles and 17 miles of present track will be abandoned. The greatest amount of this work is being carried on in the Skunk River district. A new bridge will be constructed across Skunk River ¼ of a mile from the present bridge. The cost of these improvements also will aggregate about $1,000,000. In Missouri 20 miles of new track is being laid between Grand City and Albany. This will give the territory in the vicinity of Grand City a new outlet to St. Joseph, Mo., and enable the company to compete with the Chicago Great Western. A new $50,000 brick station is in course of construction at Rock Island, Ill.

CORVALLIS, & SOUTHERN.—This company has been incorporated in Oregon, with $50,000 capital stock, to construct a line from Eugene to Coos Bay, and from Eugene to Corvallis, Ore. James Steel, C. W. Washburn and R. F. Baker are incorporators. Principal place of business, Junction City, Ore.

GEORGIA NORTHERN.—Bids are asked until Sept. 30 for grading about six miles of the Albany extension, aggregating about 45,000 cu. yds. of earthwork, as stated in our advertising columns. C. W. Pidcock, Gen. Supt., Moultrie, Ga.; D. Lee Wardroper, Ch. Engr., 503 Gould Bldg., Atlanta, Ga.

GOWRIE & NORTHWESTERN.—Marvin Dey, Chicago, Ill., has been selected as engineer for the construction of this new branch line in Iowa. The right of way for ten miles northwest of Gowrie has been purchased and the work of grading the road will be commenced Sept. 1. It is intended to have all the grading done this winter. W. K. McFarlin, Supt. of Construction, Chicago, Rock Island & Pacific Ry., Chicago.

HOLSTON VALLEY.—Work has begun on the extension of this line from Big Creek to Fish Dam, a distance of three miles, through a wild timber country. W. T. Neeley, Secy. and Treas., Bristol, Tenn.

INDIA.—A railway from Simla to Kalka, 60 miles, is in contemplation at a cost of rupees 80 lakhs (about $2,700,000). There will be three tunnels, two one-half mile and one three-quarters of a mile long, and many bridges. Plans have been drawn subject to governmental approval. Work will be commenced in December. Whether the gage will be 2 or 2½ ft. is to be decided. H. S. Harrington, Ch. Engr., Rawalpindi.——The construction of the East Coast Ry. from Bezwada to Barung, 540 miles, to cost rupees 57,344,361 (about $19,000,000), has been sanctioned by the secretary of state for India. A. Brereton, Ch. Engr., Waltair, India.

INDIANAPOLIS SOUTHERN.—Chas. E. Barrett, Secy., Indianapolis, Ind., informs us that surveys were partly made for this new line some time ago, but that new surveys are about to be run from Indianapolis to Evansville, Ind., with two branches, 350 miles. The capital for construction has not yet been secured, but several parties have already offered to furnish capital to build the road. Contracts will not be let before spring. D. M. Parry, Pres., Indianapolis.

JAPAN.—The railway construction bureau is reported to have at last decided upon a plan of an elevated railway between Shinsenza and the central railway station to be built at Eirakucho. The works will be commenced in the course of the current fiscal year, and yen 3,600,000 ($1,800,000) are to be appropriated for buying the necessary land. Address the bureau, care of the Minister of Public Works, at Tokio.

LAKE ERIE & WESTERN.—T. H. Perry, Ch. Engr., Indianapolis, Ind., informs us that plans have been prepared for extensive improvements on this system at Michigan City, Ind., including a new terminal at 6th and Michigan Sts., with a brick and stone combined passenger and freight station, 123 × 36 ft.; a 4-stall brick engine house, a table, bank, pumping station, grading, drainage, water and gas, and 4,000 ft. of yard track. Geo. L. Bradbury, Vice-Pres. and Gen. Mgr., Monadnock Block, Chicago.

LEHIGH VALLEY.—Thomas Kerns, Pottsville, Pa., is reported to have been awarded the contract to change this company's tracks near Lostcreek, Schuylkill county, Pa., so as to connect with the new Mammoth breaker which the Lehigh Valley Coal Co. is about to erect. It is said that a large number of men will be employed on the work. W. G. Berg, Engr., Jersey City, N. J.

LITTLE ROCK, HOT SPRINGS & WESTERN.—McCarthy & Reichardt, Little Rock, Ark., were awarded the contract Aug. 25 for grading on this road between Little Rock and Benton, Ark., a distance of 23 miles. Work will begin at once all along the line, with a force of about 2,000 men. Work is to be completed to Benton, where it will meet the Hot Springs division, by Dec. 1. The contracts are now all let. The Phoenix Bridge Co., Phoenixville, Pa., and the Missouri Valley Bridge Co., Leavenworth, Kan., have the contracts for the iron bridges, of which there will be six spans. Peter Cassidy has been awarded the contract for the grading between Benton and Hot Springs. The Illinois Steel Co. has the contract for the rails, and the St. Charles Car Co. and Barney Smith Co., Dayton, O., the contract for the rolling stock and equipment. Col. S. W. Fordyce, Pres.

MAINE CENTRAL.—Wm. D. Smith, Bangor, Me., is reported to have been awarded the contract to construct a branch railway two miles in length from the main line at Gardiner, Me., to the mills on Cobbosseconteе stream. The surveys were made some time ago, and Mr. Smith has five months in which to complete the building of the road. There will be half a mile of piling and trestle bridges on the line, and 500,000 ft. of hard pine timber will be used. A crew of 75 men will be employed, and work will be commenced soon.

MANCHESTER & MILFORD.—Reports state that the location is about to be filed and that bids for construction will be asked at once for this proposed branch of the Boston & Maine R. R. from Manchester to Milford, via Grasmere and Bedford, N. H. L. Tuttle, Pres., Boston, Mass.

MEXICO.—A new concession has been granted to Mexican capitalists for a railway from San Geronimo on the Tehuantepec National Ry. to Guatemala.——Gen. Charles Miller, of Pennsylvania, and other Americans, have secured a concession for constructing 252 miles of line from Culican to Bin, via Durango and Sinaloa provinces.——Philadelphia capitalists, one of whom is Edward Van Vuren Hoes, have received a concession for constructing a line 36 kilometers (22.36 miles) long, from the port of Guaymas to the valley of San Marcial, to reach coal fields.

MIDDLE TENNESSEE & ALABAMA.—Reports state that the contract has been let for grading this road from Lax to Decatur, Tenn., 14 miles. J. W. Thomas, Pres., Martinsville, Tenn.

MUSKOGEE, OKLAHOMA & WESTERN.—W. H. Herbert, Gen. Mgr., Cleveland, Okla., informs us that this proposed line will run from Enid to Pawnee and Cleveland, Okla.; Muskogee, Ind. Ter., and Fayetteville, Ark., with branches from Muskogee to Texarkana, and from Muskogee to north fork of Red River in Greer county, Okla., a total distance of 550 miles. Surveys have been made and minor details completed for that distance; financial arrangements are being made. A 1,150-ft. bridge will be built near Fort Gibson, Ind. Ter., to connect that place with Muskogee. Patrick J. Bryen, Pres., Muskogee; O. B. Gunn, Ch. Engr., Whitney Bldg., Kansas City, Mo.

PLATEAU VALLEY.—George Smith, Pres., Grand Junction, Colo., informs us that the survey and cross section have been made and the right of way obtained for this proposed line from Cameo along the Plateau Valley to Collbran, Colo., 20 miles. The farmers along the route will do the grading this fall. The capital for steel, bridges and equipment will be obtained from bonds to be sold after the roadbed is under way. Thus far all the money has been furnished by Mr. Smith. It is also reported that a bridge will be built across the Grand River at Cameo, and that the estimated cost of the line is $500,000.

ROCKINGHAM RY., MINING & MFG. CO.—Greene county, Va., has voted a subscription of $15,000 to aid this company in the construction of a railway from Gordonsville to Elkton, Va., with projected extensions to Richmond, Va., and Pittsburg, Pa. Gen. Jas. S. Negley, 141 Broadway, New York, is reported as being interested.

TENNESSEE CENTRAL.—The first rail was laid on this new system, near Rockwood, Tenn., Aug. 22, and track-laying between this point and Crossville, Tenn., 40 miles, will be pushed. Most of the grading has been completed on this section by Naugle, Holcomb & Co., 355 Dearborn St., Chicago, and ties and rails are now being distributed. G. T. Bigelow, Ch. Engr., Rockwood, Tenn.

SALEM & PACIFIC COAST.—Incorporated in Oregon, with $125,000 capital stock, to construct a line from Salem to the Pacific Ocean at Newport, via Falls City, Ore. It also proposes to acquire the property of the Luckiamute Valley & Western Ry. Co. J. S. Talbot, M. M. Ellis and J. J. Wiseman are incorporators.

VIRGINIA & ELY.—This company was incorporated in Minnesota Aug. 31, with a capital stock of $1,000,000, by parties interested in the Oliver Mining Co. The new line will run from the Mesabe to the Vermillion Range and thence to Lake Superior. O. W. Baker, New York; Henry W. Oliver, Pittsburg, Pa., and Chester A. Congdon, Duluth, Minn., are incorporators.

STREET AND ELECTRIC RAILWAYS.

LEXINGTON, MASS.—W. H. Mague, 44 Chestnut St., West Newton, Mass., confirms the report in our last issue that he had been awarded the contract for building the Lexington & Boston St. Ry. He has three miles of track laid, and expects to complete the entire line by Dec. 1, provided the material is delivered on time. Contracts have not yet been let for the power house or the car house.

PEMBROKE, MASS.—The Pembroke St. Ry. Co. has been organized by John P. Morse, Brockton, Mass.; W. C. Forbes, Milton, Mass., and others, with a capital stock of $20,000, to build from Pembroke to Kingston.

WORCESTER, MASS.—Reports state that the Worcester & Suburban St. Ry. Co. is planning extensive improvements, and that contracts have already been let for eight new double-truck trolley cars and for storage plants at Worcester and Leicester. Samuel E. Winslow, Mgr.

BABYLON (L. I.), N. Y.—The Babylon R. R. Co., which operates the Kinetic motor system on the street surface lines in Babylon, and to Farmingdale, has adopted a resolution to amend its charter so as to provide for an extension from Babylon to Northport, and another to Amityville. A. P. Dodge, Pres., 27 William St., New York.

BATH, N. Y.—The Albany Ry. Co. has applied for a franchise to extend its tracks from the terminus on 3d St. and Broadway, Rensselaer, through this village.

NEW YORK, N. Y.—It is reported that the Union Ry. Co. will extend its line this month from Bedford Park to Williamsbridge. E. A. Maher, Gen. Mgr., 128th St. and 3d Ave.

HANOVER, PA.—A syndicate is said to be negotiating for the purchase of the Hanover & McSherrystown St. Ry. Co., and the Hanover Heat, Light & Power Co., with a view of consolidating the same. The capital stock of the railway company is $40,000, while that of the latter is $30,000.

JOHNSTOWN, PA.—The survey for the Johnstown & Somerset Traction Co.'s electric line to Windber has been completed and it is expected that the grading will be commenced soon. It is stated that the power house, plans for which are completed, will be built midway on the line.

NEWCASTLE, PA.—It is reported that the line of the Newcastle Traction Co. will soon be extended from its present west side terminal. R. R. Quay, Pres.

PHILADELPHIA, PA.—Reports state that the Union Traction Co. has determined to extend the tracks of the 10th and 11th Sts. line from Jackson to Ritner St, as well as to remove the second track from 12th St. and to place it on 11th St. The plans have been drawn. The company is now asking for bids for an extension of the 7th and 9th Sts. tracks from McKean to Jackson St. Work will soon be begun. W. S. Twining, Engr.

SOUTH BETHLEHEM, PA.—A. L. Cope, Pres., South Bethlehem & Saucon St. Ry. Co., informs us that this proposed line will run from South Bethlehem to Freidensville, via Seidersville and Colesville, five miles. No survey has yet been made, but the right of way is nearly finished. It will be necessary to issue about $30,000 of bonds. The contract for construction has not yet been let.

DOVER, DEL.—The Kent county levy court granted a franchise to the Delaware General Electric Ry. Co., Aug. 31, to build an electric railway from Milford to Woodland Beach, via Dover, 35 miles. Leo Belmont and Geo. F. Leland, of Philadelphia, are said to be interested. These same men have also incorporated the Diamond State Construction Co., with $100,000 capital stock, to construct the railway.

WILMINGTON, DEL.—A preliminary survey is now being made between this city and Brandywine Park, with the view of double-tracking the Wilmington & Brandywine Springs Ry. It is also proposed to extend the line this winter from the park to Kennett Square. R. W. Crooks, Pres.

ATLANTA, GA.—The Atlanta & Roswell Electric Ry. & Power Co. is about to be incorporated with $500,000 capital stock, to construct a line from Atlanta to Buckhead, Roswell and Dunwoody, 25 miles. H. L. McKee, S. Y. Stribbling, and C. W. Ansley are interested.——The Collins Park & Belt R. R. Co. has accepted the franchise recently granted by the council.

OWENSBORO, KY.—The Owensboro & Calhoun Inter-Urban Ry. Co. has been incorporated, with $250,000 capital stock, to build from Owensboro to Calhoun, about 25 miles. J. H. Hickman, Pres.; J. D. Fredd, Vice-Pres. and Gen. Mgr.; J. T. Griffith, Treas.

CINCINNATI, O.—The Cincinnati & Eastern Electric Ry. Co. was incorporated Aug. 29, with $10,000 capital stock, to build from Cincinnati to New Richmond, via Hamilton and Clermont counties. Henry L. Korte, Henry W. Backus and Edward W. Boston are incorporators.

CLEVELAND, O.—A. W. Kurz, Ch. Engr., of Citizens St. Ry., 504 American Trust Bldg., informs us that contracts will be let as soon as franchise is granted, which will probably be this fall or winter, for this proposed electric street railway system for Cleveland, to comprise 45 miles of single-track line. Capital for construction has been secured.

LA GRANGE, IND.—The town trustees have granted a franchise to the Northeastern Indiana St. Ry. Co., to construct and operate an electric line from Goshen to La Grange, the line to be constructed within two years.

LOGANSPORT, IND.—Contractors are said to be figuring on the proposed line of the Logansport, Rochester & Northern Traction Co., to run from Logansport to Kendallville, via Rochester, Warsaw and Albion. J. T. McNarry, Pres.; Walter A. Osmer, Ch. Engr., both of Logansport.

CHICAGO, ILL.—The Calumet Electric St. Ry. Co. has obtained a right of way through Pullman, from 104th to 115th St., Kensington. The grant was from the Pullman Palace Car Co., and the street car tracks will parallel the Illinois Central R. R. Grading will be commenced at once and pushed to completion. H. M. Sloan, Mgr.

PEORIA, ILL.—The new Peoria & Pekin Terminal Ry. is expected to be put in operation Oct. 1. Grading is about completed between Peoria and Pekin, 10 miles, and nearly five miles of track laid. Steam locomotives will be used for freight purposes and electric cars for passenger service. The power house, located four miles from Peoria, is almost completed, and the machinery is on the ground. T. J. Miller, Pres.; N. D. Mossarrat, Ch. Engr., both of Peoria.

GALENA, KAN.—Work is about to begin on an extension of the Southwest Missouri Electric Ry., from Galena to Riceville, with a projected extension to Baxter Springs. New car barns will also be built here. C. E. Baker, Supt., Webb City, Mo.

FORT SMITH, ARK.—A. N. Sicard, Secy. of Fort Smith Traction, Light & Power Co., Fort Smith, informs us that work has been completed on the conversion of this line from a horse power to an electric system, and that six miles of road are now in operation. The company will lay more track next year; it will also be in the market for electric light machines and electricity. Samuel McLoud, Pres.; L. R. Robertson, Ch. Engr.

ST. LOUIS, MO.—The United Rys. Co. of this city, is said to be about to lay new tracks along Washington Ave. Nine-inch, 100-lb. rails will be used, upon a concrete or cement foundation. Jilson J. Coleman, Gen. Mgr.

ABERDEEN, WASH.—L. C. Dillon, New York, and Frank Allyn, Tacoma, Wash., are said to be interested in the proposed construction of an electric line between this city and Hoquiam.

PASADENA, CAL.—The Los Angeles & Pasadena Electric Ry. Co. has petitioned the council for a franchise to lay a track down Orange Grove Ave. C. W. Smith, Pres. and Mgr.

SAN PEDRO, CAL.—The Los Angeles Traction Co. has applied to this city for a 50-year franchise to extend its line to this place. W. S. Hook, Mgr., Los Angeles.

TIFLIS, TRANSCAUCASIA.—Bids are asked by the town council of Tiflis, until Oct. 2-14, for the purchase of a concession of the Tiflis tramways under the following conditions: The contractor must continue the working of the different lines now exploited by La Societe Anonyme Belge, consisting of about 21 versts (about 14 miles), new lines must be built to Didoube, Avlabar, etc., and the lines from Ortatchali and Olginski must be extended, providing in all for about 15 versts (9.3 miles) of new line; the present horse power must also be replaced by electric power.

BOMBAY, INDIA.—The Bombay Tramway Co. is about to substitute electrical for animal traction at a cost of rupees 15 lakhs (about $500,000), and has applied to the corporation for the necessary permission.

ELECTRIC LIGHT AND POWER.

LISBON, ME.—The town has voted not to accept the proposition submitted by Mr. Guttmann, of the Worumbo Mills, to put in a plant to light this place, Lisbon Center and Lisbon Falls.

PORTLAND, ME.—Bids for public lighting for one, two or three years were received Sept. 1 from the Portland Electric Light Co., the Portland Gas Light Co. and the Consolidated Electric Light Co.

ESSEX JUNCTION, VT.—S. A. and C. W. Brownell, Essex Junction, are planning to further develop the water power on the Winooski River at this place. They now furnish power to several mills and factories. The wheels are working under 20 ft. head, and are using only one-fourth of the power obtainable. They have had the south channel of the river surveyed by V. K. Nash, Providence, R. I., who finds they can get 30 ft. head.

STONINGTON, CONN.—P. H. Hillard, Clk., Pawcatuck Fire District, writes us that the district is considering a proposition from the Mystic Electric & Gas Light Co., with a plant located nine miles from here, to light this place with 80 25-c. p. incandescent lights. At present light is furnished by the Westerly Gas & Electric Light Co. The district does not propose to build a plant.

BURTONVILLE, N. Y.—Morrell Vrooman is reported as making surveys for the proposed plant for the Empire State Power Co., recently incorporated. Estimated cost, $100,000. De Witt A. Devendorf, Fort Hunter, N. Y., is interested.

SYRACUSE, N. Y.—Mayor McGuire has submitted a report for a municipal plant, to cost about $300,000.

WADDINGTON, N. Y.—F. Stuart Williamson, Ch. Engr., 257 Broadway, New York, writes us that the construction company is being formed to build the proposed power plant at Waddington. The plant, it is stated, will cost about $350,000. Sir Douglas Fox, Consult. Engr., 28 Victoria St., London, S. W.

HANOVER, PA.—Reports state that a syndicate is negotiating for the purchase of the Hanover & McSherrystown St. Ry., and also the Hanover Heat, Light & Power Co.'s plant, with a view of consolidating the two corporations. The capital stock of the railway company is $40,000, while that of the light and power company is $30,000.

PHILADELPHIA, PA.—It is stated that a company is being formed by Wm. J. Latta, Gen. Agent Pennsylvania R. R. Co., and others, to do a general lighting business. The company will be connected with the National Electric Co. A. J. Anderson, Mgr., Altoona, Pa.

DOVER, DEL.—Collins & Cohee, Dover, have been awarded the contract for the power house for the new plant, at $2,350. Councilman Hazel, Chn. Com.

HAGERSTOWN, MD.—E. M. Schindel, Mayor, has vetoed the ordinance for a subway franchise recently granted by the council to R. B. Hazlett.

HENDERSONVILLE, N. C.—The question of building a plant is being considered.

ATLANTA, GA.—New bids for electric lighting will be received by the council in October. The contract for lighting the city will begin April 1, and will probably be for five years. W. S. Thomson, Chn. Com.

DALTON, GA.—The question of a plant and a sewerage system will again be voted upon this fall.

LORAIN, O.—Bids are asked until Sept. 18 for furnishing 70 1,200 to 2,000-c. p. arc lights for five or ten years. G. A. Resek, Cy. Clk.

ASHLEY, IND.—It is reported that the plant here was destroyed by an explosion Sept. 2; loss, $10,000. The plant was owned by Engineer Van Busker, of the Wabash R. R.

CASEY, ILL.—Bids are asked until Sept. 15 for furnishing the materials and for constructing a plant and water-works to cost $30,000. Geo. Garner, Clk.

KANKAKEE, ILL.—Henry L. Bridgeman, 621 Phenix Bldg., Chicago, Ill., is reported as about to begin work on the proposed water power plant on the Kankakee River at Altorf.

WAUPUN, WIS.—The contract for a plant has been let to Rockwell & Snider, Chicago, at $10,559.

COUNCIL BLUFFS, IA.—The council has directed the city attorney to prepare advertisements for propositions to furnish this city with light for a term of years. The Municipal Construction Co., Chicago, has submitted a proposition, but it is not favored by the council, according to reports.

STILLWATER, MINN.—The St. Croix Power Co., organized for the purpose of transmitting electricity from Apple River Falls, Wis., to St. Paul, has begun the construction of its dam, the contract having been let to the Engineering Contract Co., New York. The dam will be 400 ft. long and 50 ft. high, and the flume will be built half a mile long. The line will be 28 miles long, and the estimated cost of the plant is $400,000.

BELLEVILLE, KAN.—The council is making arrangements for the city to own its water-works and electric plant. Address W. R. Savage and S. N. Brown.

WELLINGTON, KAN.—S. P. Kramer, Mayor, writes us that plans for a plant will be wanted in time.

EL DORADO, ARK.—It is proposed to build a plant and water-works, according to reports.

NEWPORT, ARK.—A. D. Bailey, Secy. Bd. Comrs. Pub. Improvements, writes us that the board is in correspondence with engineers about the matter of preparing plans for a plant.

EL PASO, TEX.—Bids are reported as being received by the International Light & Power Co. for constructing its proposed plant. About $20,000 has already been subscribed for the work. Bryan & Humphrey, Engrs., St. Louis, Mo.; Leigh Clark, Pres.

MISSOULA, MONT.—Bids are asked by the city clerk until Oct. 2 for street lighting, according to reports.

ASOTIN, WASH.—The Lewiston Water & Power Co. has purchased a site for its proposed plant, and, it is stated, will soon begin work.

SHELBURNE, ONT.—Bids are asked until Sept. 21 for furnishing and erecting a plant, or for electric lighting for three years, at which time the city will have the privilege of purchasing the plant. H. C. Dunbar, Clk.

KAMLOOPS, B. C.—Bids are asked until Oct. 1 for extending the plant, at a cost of $10,500. There will be required a new power house, new machinery, dynamos, etc. Willis Chipman, Engr., 103 Bay St., Toronto, Ont.; J. J. Carment, Cy. Clk.

SAN JUAN, PORTO RICO.—The U. S. government has granted a concession to Ramonde de Valdez to construct a water power plant and canal on the Rio Plata about 17 miles from San Juan. The work will cost about $200,000, according to reports.

GUAYAQUIL, ECUADOR.—Reports state that the municipal authorities are preparing to erect a plant.

HECKMONDWIKE, YORK, ENGLAND.—Bids are asked until Sept. 20 for the following machinery for a plant: Water-tube boilers and fittings, economizer, feed pumps, etc.; pipework, etc., in engine and boiler house; steam dynamos and motor-boosters (vertical enclosed high-speed engines); storage batteries; main switchboard and connections; overhead engine-room traveling crane; underground mains for private and public lighting, roadwork, etc.; public lighting, arc lamps and posts; station lighting. W. C. C. Hawtayne, Engr., 9 Queen St. Place, London, E. C.; Aulay Macauley, Clk.

ILFRACOMBE, ENGLAND.—Bids are asked until Sept. 25 for furnishing the materials for a plant. W. H. Trentham, Engr., 39 Victoria St., Westminster, S. W., London.

LUTON, ENGLAND.—Bids are asked until Sept. 22 for furnishing machinery for a plant. A. T. Snell, Engr., Suffolk House, Cannon St., London, E. C.; Geo. Sell, Clk.

MILAN, ITALY.—The La Societa Elettrotechnica Italiana, Milan, is reported to have secured the contract for a large power plant for lighting Casale Monterrati and the district. It is stated that in October contracts will be let by this company for the necessary machinery.

NEW COMPANIES.—Milton Water & Power Co., Milton, N. H.; S. Lyman Hayes, Pres.; H. L. Avery, Secy. and Treas.

Clinton Electrical Co., Portland, Me.; electrical supplies, etc.; $2,000,000; A. W. Emery, Potsdam, N. Y.; S. M. Weed, Plattsburg, N. Y.; W. W. Wood, Wood's Falls, N. Y.

Richwood Light, Heat & Power Co., Richwood, O.; $5,000; G. M. Schambs, M. C. Wolgamot, J. F. Millen.

Primus Heating, Light & Power Co., 1 Montgomery St., Jersey City, N. J.; heating and motive power apparatus; $1,000,000; Wm. Greenough, Jr., New York; John V. Bacot, Jersey City, N. J.

Empire Light Co., Pierre, S. Dak.; $100,000; E. L. Squire, Geo. E. Spencer, L. C. Smith.

Rockland Light & Power Co., Orangeburgh, N. Y.; $75,000; S. R. Bradley, Moeller Block, Nyack, N. Y.

Richmond Electric Co., Richmond, Tex.; $4,000; plant already built; C. A. Beasly, A. A. Bailey, R. F. Ransom.

American Electric Light Co., Bloomsburg, Pa.; $90,000; G. Pelton, Scranton; G. W. Reynolds, Wilkesbarre; P. R. Bevan, Carbondale, Pa.

Woodbury Ice & Power Co., 110 South Broad St., Woodbury, N. J.; $50,000; Job Scott, Mantua, N. J.; Daniel V. Somerville, Jr., Pennsgrove, N. J.; Samuel L. Franklin, Woodbury, N. J.

Champlain Electric Co., Champlain, N. Y.; $15,000; J. H. Crook, Champlain; D. C. White, Coopersville, N. Y.; H. Hogle, Lacolle, Que.

Half Moon Light, Heat & Power Co., Stillwater, N. Y.; $20,000; F. H. Ferris, J. C. Duncan, Mechanicsville, N. Y.

Aiken & Augusta Electrical Power Co., Aiken, Ga.; $25,000; Chas. W. Davis, Graniteville, Ga.; Jas. Powell, Aiken; Bryan Lawrence, Augusta.

Cumberland Falls Co., Louisville, Ky.; $9,0000; to build a power plant at Cumberland Falls, Whitley county; C. W. Banta, Pres.; Louis H. Morgan, Treas.; Jas. C. Allin, Secy.

Elizabethtown Electric Light Co., Elizabethtown, Ky.; $5,000; David L. May, W. C. Montgomery.

Bennettsville Light & Power Co., Bennettsville, S. C.; $5,000; T. W. Bouchier, H. L. McCall.

Spartanburg Railway, Gas & Electric Light Co., Spartanburg, S. C.; $150,000; P. H. Gadsden, Charleston, S. C.; F. H. Knox, Pittsburg, Pa.

Empire State Power Co., Amsterdam, N. Y.; $1,000,000; Wm. T. Mayer, Albany, N. Y.; J. Geo. Roelber, Rochester, N. Y.; Saml Bolton, Jr., Lansingburg, N. Y.

Knoxville Electric Co., Knoxville, Pa.; $1,000; J. P. Moore, W. Adams.

New England Lighting Co., Providence, R. I.; $100,000; C. T. Daniels, C. A. Babcock.

Miami Power & Water Co., Miami, Fla.; A. V. Smith, J. R. Perrott, H. S. Jenison.

Peninsula Lighting Co., Redwood City, Cal.; $200,000; of which $57,500 is subscribed; John L. Howard, Edwin Fish, Theodore F. Laist.

Home Electric Co., Dubuque, Ia.; $100,000; D. D. Myers, Pres.; G. W. Kiesel, Secy. and Treas.; W. J. Browne, Gen. Mgr.

BRIDGES.

BANGOR, ME.—It is stated that William D. Smith, of this place, received on Aug. 28 a contract from the Maine Central R. R. Co. for constructing about ½ mile of piling and trestle bridges for its new branch railway.

ROCHESTER, N. Y.—An amendment has been made to the ordinance authorizing the construction of a bridge over the Oak Orchard Creek at Waterport by the county supervisors, authorizing the town clerk to issue ten bonds of $1,400 each at 4%.

BOSTON, MASS.—Plans for widening the Maiden Bridge have been completed. The new structure will be 60 ft. wide and 815 ft. long, and will be built on piles.

CHESTER, PA.—J. H. Huddelf, Chn. Jury, writes us that the jury has received three petitions for bridges, together with one for a bridge in Glen Mills, Thornbury, which it will submit to the court to go before the county commissioners.

PHILADELPHIA, PA.—The Spreckels Sugar Refining Co. has received a permit from the city to construct a bridge across Reed St., connecting its sugar house with the barrel factory.

MILFORD, VA.—It is stated that the board of supervisors have decided to construct a bridge over the Mattapone River, near this place.

ATLANTA, GA.—Local papers state that the council will consider at its next meeting the question of bridging Whitehall St. A resolution to prepare plans for the viaduct will be introduced by Alderman Mitchell. The Collins Park & Belt R. R. Co. has given $50,000 for the work, which will cost about $100,000.

CLEVELAND, O.—Local papers state that the city proposes to rebuild the Wilson Ave. bridge. An appropriation of $40,000 will be made for the work. A new superstructure will be placed on the Upper Seneca St. bridge to cost about $30,000.

CINCINNATI, O.—Plans for the Liberty St. viaduct were completed on Aug. 28 by Engineer Punshon, estimated cost, $33,824.

EATON, O.—Bids are asked until Sept. 14 for constructing the following bridges: A wooden and an iron bridge, 88 ft. long, over Price's Creek, on the Monroe Central turnpike in Monroe; a wooden and an iron bridge, 123 ft. long, over Four-Mile Creek, on Brown's turnpike, in Israel. R. K. De Motte, County Engr.

SHELBY JUNCTION, O.—Reports state that the Baltimore & Ohio R. R. will construct a new iron bridge at this place.

DELPHI, IND.—Bids are asked until Sept. 20 for constructing 6 small bridges. J. Nevin, County Comr.

INDIANAPOLIS, IND.—The lowest bids received by the board of public works on Aug. 28 for constructing the abutments for bridges to be built over Pleasant Run at Minnesota and Linden Sts. were submitted by Robbins & Fraser, at $2,115 and $2,361, respectively.

INDIANAPOLIS, IND.—The county commissioners on Aug. 30 received the following bids for constructing a bridge over Fall Creek at Central Ave: For a stone bridge, Gansburg, Roney & Heywood, $36,757 (accepted); William Fife, Indianapolis, $49,800 for No. 1 and $49,250 for No. 2; Koss & Fritz, $37,000; the Wrought Iron Bridge Co., Canton, O., $48,160. For a steel bridge—Canton Bridge Co., $46,700; New Columbus Bridge Co., $44,200; Wabash Bridge Co., $47,300; King Bridge Co., $45,000; Lafayette Bridge Co., $43,500; Massillon Bridge Co., $46,600; Toledo Bridge Co., $44,400; Variety Iron Works, Cleveland, O., $45,500; Champion Bridge Co., Wilmington, O., $46,100; Wrought Iron Bridge Co., $44,262. The structure will be 297 ft. long and 38 ft. in the roadway, with 6-ft. walks on either side.

DETROIT, MICH.—Local papers state that at a meeting of the Springwells and Ecorse townships' board on Aug. 24 it was decided to build a new iron swing bridge over the Rouge River, on Fort St.

CHICAGO, ILL.—Local papers state that Commissioner of Public Works McGann will apply to council for $2,000,000 for the repair of bridges.——The board of sanitary trustees on Aug. 30 adopted a report to build a new bascule bridge over the south branch of the river at Canal St., which they will submit to the municipal authorities; estimated cost, $70,000.

ELGIN, ILL.—At a meeting of the council on Aug. 22 it was voted in favor of constructing a viaduct at National St. Bids will soon be asked for the work; estimated cost, $28,000.

ROCKFORD, ILL.—Local papers state that the proposed new bridge will span Rock River at Auburn St.

HELENA, ARK.—The board of public affairs awarded on Aug. 25 the contract for the construction of eight steel bridges within the city limits to Lee Fish, Shelbyville, Ill., according to reports.

KANSAS CITY, MO.—Local reports state that the Metropolitan Street Ry. Co. has advertised for bids for constructing the Eighth St. viaduct. Contracts will be let for substructure and for superstructure separately.

KANSAS CITY, MO.—At a meeting of the council on Aug. 29 the location of the proposed bridge was decided on, it being to span the railway tracks at Tenth St.

ANDERSON, TEX.—G. B. Wiles, Engr., Houston, received on Aug. 14 the following bids for constructing a bridge over the Navasota River, 3 miles from Navasota. Wm. Bradburn, County Surv.:

New Jersey Steel & Iron Co., Trenton, N. J.	$5,560
Missouri Valley Bridge & Iron Works, Leavenworth	5,497
C. Q. Horton, Austin, Tex.	5,490
Geo. E. King Bridge Co., Desmoines, Ia.	5,590
Indiana Bridge Co., Muncie, Ind. (accepted)	5,395
Morgan Rhodes, Waco, Tex.	5,420
M. S. Hasil, Jr., Fort Worth, Tex.	5,473
A. M. Blodgett, Kansas City, Mo.	5,587
W. S. Grant, Navasota, Tex.	5,800

AUSTIN, TEX.—It is stated that about 2,000 bridges will have to be either rebuilt or repaired on account of the damage rendered by the recent flood.

DENVER, COLO.—The contract for a bridge across the Republican River in the eastern end of Arapahoe county was let Aug. 21 to the Pueblo Bridge Co., at $1,100.

CORVALLIS, MONT.—The county commissioners have awarded to Wm. Young a contract for constructing a bridge at this place, at $1,465.

LARAMIE, WYO.—It is reported that a new steel bridge will be erected at McGill's ranch, to replace the structure recently destroyed.

COLFAX, WASH.—The following bids were received Aug. 18 by the county commissioners for constructing the Fisher bridge: Northwest Bridge Co., $1,945; Puget Sound Dredging Co., $1,978; A. Valk, $1,970; O. H. Horton, $1,850 (accepted).

EVERETT, WASH.—Bids are asked until Sept. 12 for placing about 60 piles for the protection of the Snohomish bridge, and for constructing two bridges on the Granite Falls and Hartford roads, 120 ft. and 75 ft., respectively. T. E. Headlee, Clk. Bd. County Comrs.

GOLDENDALE, WASH.—Bids are asked for building a bridge across the White Salmon River to replace the one recently destroyed. Wm. Coate, County Comr.

ALBANY, ORE.—Bids are asked until Sept. 8 for constructing two cylinder piers to the Green Ferry bridge over the Santian River near Jefferson. Frank Crabtree, County Clk.——The contract for constructing the bridge over Muddy Creek has been awarded to J. B. Tillotson, at $1,104.

CORVALLIS, ORE.—N. M. Stone has received from the county commissioners a contract for the bridge near Wiley Winkle school, and for the Felger and Hartless bridges.

MERCED, CAL.—Bids are asked by the county clerk until Sept. 20 for constructing two bridges in Road District No. 2, one over Owens Creek, on the Cunningham Road, and one over Deadman's Creek, on the Healyranch Road.

SACRAMENTO, CAL.—Local papers report that the project for the proposed bridge across the American River is being considered.

SAN FRANCISCO, CAL.—E. J. Morser, Asst. Cy. Engr., writes us that no decided action has been taken on the bridge question, but that the matter will probably be acted upon the latter part of September.

SAN JOSE, CAL.—Bids are asked by the city clerk until Sept. 11 for constructing a bridge across Coyote Creek at Julian St.

STOCKTON, CAL.—Bids are asked by the board of public works until Sept. 13 for constructing a trestle bridge across Mormon Channel on Pilfirm St.

RENO, NEV.—Bids are asked until Sept. 25 for constructing a wooden bridge across the Truckee River. F. B. Porter, Clk. Bd. County Comrs.

WINNIPEG, MAN.—Bids are asked until Sept. 8 for constructing a bridge over Snake Creek, and for the alteration and extension of Rideout's Bridge over Bird Tail Creek. Robert Watson, Minister Pub. Wks.

HORNSEY, ENGLAND.—Bids are asked until Sept. 8 for erecting the superstructure for widening the bridge across the New River, at Turnpike Lane. F. D. Askey, Clk. District Council, Southwood Lane, Highgate, N.

BUILDINGS.

BAKERSFIELD, VT.—Bids are asked until Sept. 9 for constructing an addition to Brigham Academy. B. H. Morrill, Principal.

BOSTON, MASS.—Bids are asked by the school committee, Mason St., until Sept. 11, for erecting a primary school building on Dighton Place, Brighton; bond, $20,000. Whitman & Hood, Arcns., 62 Devonshire St.——Bids are asked until Sept. 11 for erecting a new grammar school building in East Boston; bond, $25,000. Greenleaf & Cobb, Archs., 1017 Tremont Bldg.

BOSTON, MASS.—The Elektron Mfg. Co., Springfield, Mass., has been awarded the contract for erecting electric elevators in the new Albany building in Boston. There will be six passenger elevators and six freight elevators, the former with a carrying capacity of 3,000 lbs. and the latter with a capacity of from 4,000 to 6,000 lbs.

BUFFALO, N. Y.—The following bids have been received for erecting a 1-story addition to school building No. 17: Jacob Jaeckle, $16,266; John Lannen, $17,244; George Kempf, $17,575; Charles Mosier, $16,300; George E. Frank & Bros., $16,569; N. Niederpruem, $16,300.

NEW YORK, N. Y.—Plans have been filed by the Roman Catholic Church of the Holy Trinity for a 1-story brick church building on 82d St., near Amsterdam Ave., to cost $40,000. J. H. McGuire, Arch., 3 West 29th St.; by William Higginson, Agent and Arch., 108 Fulton St., for a 6-story brick factory building at 547 and 549 West 27th St., to cost $70,000; by Patrick Norton, 1035 3d Ave., for a 10-story brick and stone flat building at Central Park West and 92d St., to cost $600,000. George Keister, Arch., 140 West 34th St.; by Edward Jansen, 124 West 19th St., for a 6-story brick business building at 112 to 116 West 18th St., to cost $60,000. W. C. Trohne, Arch.; by Joseph Anderson, for three 4-story brick tenement buildings at Brook and Wendover Aves., to cost $50,000. R. Werner, Arch.; by William Quinn, 4 West 924 St., for a 7-story brick and stone flat and store building at 79th St. and Amsterdam Ave., to cost $250,000. F. T. Camp, Arch.; by Wm H. Ebling, Jr., 157th St. and Cauldwell Ave., for a 9-story brick hotel building at 92d St. and Madison Ave., to cost $350,000. Louis Korn, Arch., 37 Maiden Lane; by Owen Costello, 131 East 84th St., for an 8-story brick mercantile building at 36 East 11th St., to cost $60,000. R. Moeller, Arch., 959 East 165th St.——The following bids were received by fire department Sept. 1 for alterations and repairs to engine house No. 5, 340 East 14th St.: Christopher Wally Co., 1328 Broadway (accepted), $9,847; Hartman & Horgan, Associated Charities Bldg., $10,439; Mapes-Reeve Construction Co., 150 Nassau St., $13,700.

NEW YORK, N. Y.—Bids are asked by the board of education, 146 Grand St., until Sept. 18, for completing the erection of new public school 44, Manhattan; also for additions to public schools 30 and 58, Borough of Queens.

OGDENSBURG, N. Y.—The following bids were received by the supervising architect, Washington, D. C., Sept. 1, for repairs and alterations to the U. S. building at Ogdensburg: Thos. Whelen, Ogdensburg, $5,214, 50 working days; Feely & Willard, Ogdensburg, $4,000; Jas. Fitz-Gibbons, Ogdensburg, $5,639, 2 mos.; Richardson & Burgess, Washington, D. C., $3,667, 2 mos.

ROME, N. Y.—Roberts & Williams, Utica, N. Y., are reported to have been awarded the contract for erecting the new ward building for the Rome Custodial Asylum, at $32,386.

SAG HARBOR (L. I.), N. Y.—A large tract of swamp land at this place is being filled in and a substantial breakwater being built. It is reported that Frank C. Haven, Oakland, Cal., owns this property, and will erect a summer hotel and cottages in the spring.

SONYEA, N. Y.—Thos. W. Finucane, 3 Union Place, Rochester, N. Y., is reported to have been awarded the contract for erecting four brick and stone dormitories for the Craig Colony for Epileptics, Sonyea, to cost about $65,000. Carrere & Hastings, Archs., 28 East 41st St., New York; Jas. H. Loomis, Chn. Com., Sonyea.

NEWARK, N. J.—Mayor Seymour has been requested by the council to appoint a commission to report on a site and plans for a new city hall building.——Edward M. Waldron & Co., Newark, has been awarded the contract for constructing the second section of the new cathedral building, using New Hampshire granite, to cost about $200,000. This will complete the work as far as the clere story.

RAHWAY, N. J.—Thomas M. Gopsill, Secy. of the Rahway Reformatory, announces that the commission has awarded contracts for the completion of the reformatory building, as follows: Northeast wing, guard room and power house, $155,550, to John Gunn & Co., East Orange, N. J.; electric wiring, $20,892, to Edward Heaton, Newark, N. J.; boilers, steam heating and ventilating apparatus, $26,230, to E. Keeler & Co., Williamsport, Pa. The total of the contracts is $202,671, and the balance left out of the $230,000 allowed the commission by the legislature is about $27,000.

BADEN, PA.—Clark Bros., Allegheny, Pa., are reported to have been awarded the contract for the excavating and stone work on the St. Joseph's Academy to be erected here, at a total cost of $145,000. Sidney Heckert, Arch., Stevenson Bldg., Pittsburg, Pa.

PHILADELPHIA, PA.—Plans are being prepared for alterations and additions to the building at 18th and Walnut Sts., including elevators, steam heating, electric lighting, etc., to cost about $50,000. Kennedy, Hayes & Kelsey, Archs., 931 Chestnut St.——Reports state that B. Ketcham's Sons are to erect an 8-story store building at 927 to 931 Market St., for C. & M. Weightman, to cost $150,000.——The following bids were received by the supervising architect, Washington, D. C., Aug. 30, for removing the old and installing the new low-temperature hot-water heating apparatus in the U. S. marine hospital building and U. S. custom house building at Philadelphia, Pa.: Norristown Covering Co., Norristown, Pa., $5,250, time 40 days; D. R. Burns, Philadelphia, $4,993, 45 days; Andrew Florence & Co., Philadelphia, $5,374, 45 days; Robert Scott & Co., Philadelphia, $6,127, 40 days; Francis Bros. & Gillette, Inc., Philadelphia, $8,500, 45 days.

PHILADELPHIA, PA.—Charles McCaul, 10 North 11th St., is reported to have been awarded the contract for erecting new dormitories for the University of Pennsylvania, to cost $190,500. Cope & Stewardson, Archs., 320 Walnut St.——Plans have been submitted to the water department for approval for the following new works: Intake No. 2, at the Roxborough pumping station; engine house, boiler house and intake at the same pumping station; engine and boiler house and chimney at the Frankford high-service pumping station, and for a one-story erecting shop, 50×150 ft., to be built on the east side of Frankford Ave., north of Wildey St., for Morse, Williams & Co., by Robert Beatty & Bro., at a cost of $6,500.

PITTSBURG, PA.—Bids are asked until Sept. 14 for erecting the new Bruskton school building, 37th Ward. Milligan & Miller, Archs., Wilkinsburg, Pa.

SMETHPORT, PA.—The public school building has been destroyed by fire. Loss, $25,000; insurance, $14,000.

WILKESBARRE, PA.—Bids are asked by S. W. Davenport, 18 North Franklin St., until Sept. 8 for electric lighting, heating and ventilation in the asylum buildings at Retreat.

BALTIMORE, MD.—Baldwin & Pennington, 44 South St., have issued plans for two additional buildings for the United Railways & Electric Co., to be erected at Columbia Ave. and Nanticoke St. A paint shop, car barn and other buildings are to be erected on the same lot. In all there will be nearly a dozen structures on the property, which covers an entire square. W. A. House, Gen. Mgr.

WASHINGTON, D. C.—The District Commissioners have received the following bids for constructing two truck houses: Whitney Ave. house—John Hughes, Jr., Baltimore, $12,489; Gleason & Humphrey, Washington, $15,900. Georgetown house—John Hughes, Jr., $12,638; D. F. Mockabee, Washington, $16,792, with $200 added for terra cotta cornice; Gleason & Humphrey, $17,400.

NORFOLK, VA.—Bids are asked by the bureau of yards and docks, Washington, D. C., until Sept. 30, for constructing a building for electric plant, plumbers' shop and machine shop of steel and brick, about 110×180 ft., at the navy yard, Norfolk.

RICHMOND, VA.—Frederick Sitterding, Richmond, has been awarded the contract for erecting the proposed brick and granite station for the Southern Ry. Co. at Mill and 14th Sts.

NEW MARTINSVILLE, W. VA.—Bids are asked until Oct. 3 for erecting a new court house for Wetzel county, cost not to exceed $30,000. H. R. Thompson, County Clk.

NEW ORLEANS, LA.—The following bids were opened by the council Aug. 28: For the erection of a brick school building at North Rampart St. and Jourdon Ave., Charles H. Charlton, Jr., $23,100; W. L. Keife & Co., $23,217; A. Downy, $21,366; W. U. Mills, $24,000; F. D. Mazzi, $26,445. For the erection of a school building on Erato, between Baronne and Dryades Sts., J. W. Kelly, $24,560; Mazzi Bros., $21,500; Charles H. Charlton, Jr., $21,500; W. L. Keife & Co., $21,623; A. Downy, $21,022; Arthur Leibe, $24,225; W. U. Mills, $22,100. For the erection of a police jail at Berlin and Magazine Sts., Charles H. Charlton, Jr., $16,275; W. L. Keife & Co., $16,350; A. Downy, $18,347; W. U. Mills, $16,200.

BRISTOL, TENN.—Bids are asked by the supervising architect, Washington, D. C., until Sept. 28, for construction (except heating apparatus, electric wiring and conduits) of the U. S. building at Bristol.

DYERSBURG, TENN.—Bids are asked until Sept. 22 for erecting a jail building, including steel or cage work. T. C. Gordon, Chn. Com.; H. J. Hains, Arch., 200 2d St., Memphis, Tenn.

NEWPORT, KY.—The following bids were received by James Knox Taylor, Supervising Arch., Washington, D. C., Aug. 31, for construction (except heating apparatus, electric wiring and conduits) of the U. S. post-office building at Newport:

		Time.
Charles McCall, Philadelphia, Pa.	$75,200	1 year.
McIlvain, Unkefer & Co., Pittsburg Pa.	64,400	12 mos.
C. Stafford, St. Louis, Mo.	68,900	12 "
L. L. Leach & Son, Chicago, Ill.	65,881	12 "
Scheimer, Blors & Co., Cincinnati, O.	64,500	1 year.
Bailey, Koerner & Co., Evansville, Ind.	66,200	14 mos.

SOUTH BEND, IND.—Bids are asked until Sept. 9 for constructing a 2-story brick and stone office building and a corrugated iron freight shed in this city, for the Terre Haute & Indianapolis R. R. Co. Address the Chief Engineer, Terre Haute, Ind.

AGRICULTURAL COLLEGE, MICH.—Bids will be asked this month, according to reports, for erecting a women's college building, to cost about $83,000.

MARQUETTE, MICH.—Lipsett & Gregg, Sault Ste. Marie, Mich., have been awarded the contract for erecting the new hospital building to be built here in connection with the prison. The appropriation is $16,500.

CHICAGO, ILL.—Plans have been prepared for G. E. Link, 6445 Emerald Ave., for a 3-story apartment building to be erected at 320 and 322 West 61st St., at a cost of $42,000. A. G. Ferree, Arch., 6420 Union Ave.——Work will probably be begun this month on a 3-story fireproof permanent agricultural exposition building to be located at the main entrance to the Union Stock Yards, to cost $100,000.

ONEIDA, WIS.—Bids are asked by the office of Indian affairs, Washington, D. C., until Sept. 26, for erecting a brick school building and an addition to the boys' dormitory at the Oneida School; also for one water tank, tower, pump, etc.

WHITEWATER, WIS.—A special election will be held here Sept. 13 to vote upon the issuance of bonds for the erection of a new city hall building.

FORT DODGE, IA.—Plans are being prepared, according to reports, for a 3-story brick and stone theatre and office building, 70×140 ft., for the Midland Life Association, to cost about $30,000. G. H. Johnston, Arch., 1912 La Salle St., St. Louis, Mo.

ROCKFORD, IA.—F. C. Norlander, St. Paul, Minn., is reported to have been awarded the contract for erecting a new school building here, at $21,680.

MINNEAPOLIS, MINN.—Kelley & Lamb have been awarded the contract for steam heating for the new court house, at $32,734; H. Kelly & Co. received the contract for plumbing, at $15,000; and the Northwestern Brick & Fireproofing Co. received the contract for fireproofing, at $9,950.

MINNEAPOLIS, MINN.—The following bids have been received for erecting the east side high school building from revised plans by E. S. Stebbins: John Wunder Lumber Exchange, $67,250; R. McMillan & Co., $68,833; J. A. Nordeen, $69,850; J. & W. A. Elliott, $71,235; F. E. Graves, $71,895; E. J. Davis & Son, $72,990.

ST. PAUL, MINN.—The following bids were received by the supervising architect, Washington, D. C., Aug. 30, for the foundations, superstructure and roof covering of the extension to the U. S. building at St. Paul:

		Time.
E. F. Goebel Co., Chicago	$180,569	16 mos.
D. H. Hayes Co., Chicago	144,000	12 "
Hennessy & Cox, St. Paul	179,900	416 days.
L. L. Leach & Sons, Chicago	199,500	16 mos.
Butler-Ryan Co., St. Paul	177,300	16 "
Amberg Granite Co., Chicago	200,185	.....

NATIONAL MILITARY HOME, KAN.—Bids are asked until Sept. 18 for constructing a barrack at the western branch of the National Home for D. V. S. W. B. Shockey, Treas.

GETTYSBURG, S. DAK.—Bids are asked until Sept. 25 for erecting a new school building in Fayette township. Charles Berquist, Chn.

KANSAS CITY, MO.—A fire in this city, Sept. 2, destroyed the packing plant of Jacob Dold, located in the Bottoms, in West 9th St., causing a reported loss of $250,000.

AUSTIN, TEX.—Bids are asked by the school board until Sept. 7 for erecting a stone, or brick and stone, high school building. J. B. Rogers, Pres.; McDonald & Gordon, Archs., Austin.

COOPER, TEX.—The commissioners of Delta county have issued $35,000 in bonds for erecting a new county court house, to replace the one burned last winter. Plans and specifications will be requested.

GALVESTON, TEX.—Plans have been prepared for a new 5-story building to be erected in this city. G. R. Stowe, Arch., 220 22d St.

HOUSTON, TEX.—It is reported that Levy Bros. have purchased the old Morris Block on Main St. and will erect a 3-story brick department store building next year.

LOS ANGELES, CAL.—Bids are asked until Sept. 25 for erecting a men's barracks, and cow barn, and furnishing the women's building at the county farm. C. W. Bell, Clk. of Los Angeles County.

SAN FRANCISCO, CAL.—Bids are asked until Sept. 15 for constructing an oil house at Point Pinos lighthouse station, Cal. Major Chas. E. L. B. Davis, U. S. Engrs., 90 Flood Bldg., San Francisco.

NAVAJO, ARIZ.—Owen & Hills, 210 Loeb'r Exchange, Minneapolis, Minn., were the lowest bidders for erecting a dormitory at the Little Water Indian School at Navajo at $35,000.

BOISE, IDAHO.—The following bids were received by the supervising architect, Washington, D. C., Aug. 28, for constructing the U. S. building at Boise: Montana Building Co., Helena, Mont., $263,266, time 20 working mos.; James H. Fany, Denver, Colo., $219,645, 18 mos.; Idaho Construction Co., Boise, $286,479, 16 mos.; L. L. Leach & Son, Chicago, Ill., $234,876, 16 mos.; Eastman & Boome, Boise, $244,870, 16 mos.

WINNIPEG, MAN.—Bids are asked until Sept. 9 for erecting new barracks for the Salvation Army at Rupert and King Sts. Major McMillan, Sproule Block.

ROSSLAND, B. C.—James Lawn, Rossland, has been awarded the contract for erecting the new court house at Rossland, to cost about $40,000.

NASSAU, BAHAMAS, WEST INDIES.—Plans and specifications are asked by the board of public works for the Island of New Providence, Bahamas, until Nov. 30, for a new brick, stone or iron public market building to be erected in Nassau. Premiums, £40 ($200), £10 and £5. Address the Civil Engineer, Bd. Pub. Wks., Nassau, Bahamas, via New York.

WATER-WORKS.

WILLIAMSTOWN, MASS.—A town meeting will soon be held to consider the question of purchasing the works for $150,000, the price the company asks.

AVON, N. Y.—This place has voted against issuing $12,500 in bonds for improving the works.

BROOKLYN, N. Y.—The aldermen are considering the ordinance which provides for the expenditure of $900,000 for the construction of a pipe line from Milburn pumping station to Spring Creek. It is estimated that this amount will provide Brooklyn with an additional 25,000,000 gallons of water per day.

IRVINGTON, N. Y.—Bids are asked by the water commissioners until Sept. 19 for constructing a new reservoir, to cost $80,000.

NEW YORK, N. Y.—The following submitted bids Sept. 6 for building overflows and blow-off sewers, laying water pipe, etc., in connection with the Jerome Park reservoir of the new Croton Aqueduct, Borough of the Bronx: Ghielmann & Smith, Farrell & Hopper, A. C. Chenoweth, Jno. C. Hart & Co., Kelly & Kelley, 220 Broadway, supposed to be the lowest bidders at $87,765; Wm. Dalton, C. W. Collins, the United Co., John T. MacDonald, Jas. Pilkington, supposed to be second lowest at about $89,455; Rawley & Rooney. The itemized bids will be given in our next issue.

ROME, N. Y.—It is now proposed to secure an additional water supply from Bull Head Lake. Address Mayor White.

WHITESBORO, N. Y.—Jno. N. Siegrist, Utica, N. Y., has been awarded the contract for constructing the works, while Chas. Millar & Son, Utica, have the contract for 12 miles of pipe, castings, hydrants, etc. There will be a reservoir of 5,000,000 gallons capacity.

VINELAND, N. J.—We are informed that on Sept. 12 the council will take steps to call a public meeting to order an issue of bonds for the proposed works and electric plant.

MERCERSBURG, PA.—The water company, recently formed, is reported to have let the contract for pipe, etc., for the works.

MILLERSBURG, PA.—E. H. Leffler writes us that a company secured a franchise for gravity works Aug. 22, and will be incorporated Sept. 18. There will be a 100,000-gallon reservoir. Up to Aug. 30 no contracts had been let.

MOUNT PLEASANT, PA.—The Huron Water Co. has been incorporated with a capital stock of $50,000, of which $5,000 is paid in, by Chas. M. Parker, Mount Pleasant; Chas. H. Foote, Chicago, Ill., and A. F. Cooper, Uniontown, Pa.

WINDGAP, PA.—The Windgap Water Co. has been incorporated with a capital stock of $4,000, of which $400 is paid in, by Millon Flory, Bangor, Pa., and Chas. A. Myles, Windgap.

BERRYVILLE, VA.—Chas. S. York, Engr., writes us that the specifications for the proposed works, bids for which will be opened Sept. 14, as stated in the advertising columns of our issues of Aug. 24 and 31, are ready for distribution. T. F. Thompson, Recdr.

BENWOOD, W. VA.—The National Tube Co. proposes to put in six pumping engines at its plant in Riverside.

CHARLESTON, S. C.—J. L. Ludlow, Engr., Winston, N. C., writes us as follows, regarding the proposed new works for this city, this being the first authoritative information that has been given out about the project: The plans and specifications for the works have been completed. It is proposed to obtain the water from the Edisto River at a point about 30 miles from the city, with a pumping station at the river and a distributing station near the city. The 30-in. conduit from the river to the reservoir at the city pumping station is to be either cast iron, riveted steel or wooden stave construction, to be yet determined. The estimated cost of the works is one and a quarter or one and a half million dollars. Under the constitution of South Carolina the city has no authority to issue bonds to secure funds for the construction of the works, but a plan for financing the project is now in course of preparation, in which it is contemplated to secure the trust company that furnishes the money by a contract for hydrant rental and an exclusive franchise. This franchise to contain a provision by which the city shall have the option of purchasing the property or of operating it under lease. The specifications are now in press, and as soon as the financial arrangements are consummated, bids will be asked for materials and for the construction of the works. Sam'l Lapham, Chn. Com.

FLORENCE, S. C.—W. H. Walton, Mayor, writes us that a petition for bonds for works is being circulated. The petition will have to be signed by three-quarters of the property holders, after which the council will hold an election.

CULLMAN, ALA.—Bids are asked until Sept. 25 for boring a well 300 ft. deep and 10 ins. in diameter. R. I. Burke, Clk.

NATCHITOCHES, LA.—We are informed that this town will shortly hold an election to vote a five-mill tax for 20 years to aid in the construction of works and an electric light plant, plans and estimates for which are now being made by Geo. C. Morgan, of Chicago. For further information apply to J. C. Trichel, Jr., Cy. Secy.

CLARKSDALE, MISS.—Another election will be held Sept. 25 to vote on the question of issuing $37,000 in bonds for works and an electric plant. A. Nashman, Cy. Clk.

MUNFORDVILLE, KY.—J. M. Brents, Secy. Bd. Trustees, writes us that nothing will be done this year with regard to works.

COLDWATER, O.—We are informed that this place will vote Sept. 14 on the question of issuing bonds for works.

MARION, O.—W. H. McClure, Mayor, writes us that the committee has reported in favor of submitting to a vote of the people the question of purchasing the works for $200,000. Up to Aug. 29 the council had taken no action on the report. Population, 15,000.

SCIO, O.—This place has voted against the proposition to purchase the works.

WEST ALEXANDRIA, O.—Bids are asked until Sept. 15 for constructing a settling basin at the works, as stated in our advertising columns. L. M. Derby, Clk. Water-Works Trustees.

DETROIT, MICH.—The water board, it is reported, proposes to enlarge the pumping station and put in two new engines and to lay about three miles of mains, at a cost of about $500,000.

LUDINGTON, MICH.—This place has voted to issue bonds for the purchase of the works.

PONTIAC, MICH.—It is proposed to spend about $50,000 for new mains, etc.

PORTLAND, MICH.—The Portland Water Co. has agreed to accept $20,000 for the works, and an election will be held to decide the question. The works can be operated in connection with the city's electric light plant.

REDDING, MICH.—The council is reported as preparing plans for works.

WEQUETONSING, MICH.—A. C. Sekell, Grand Rapids, Mich., has been awarded the contract for sewers and E. Shay & Son, Harbor Springs, Mich., the contract for the works.

ALTON, ILL.—Thatcher & Shirley, Toledo, O., have been awarded the contract for extending the intake tunnel to the channel of the river, a distance of 900 ft., for the Boston Water & Light Co.

CASEY, ILL.—Bids are asked until Sept. 15 for constructing works and an electric plant, to cost $30,000. Population, 1,700. Geo. Garner, Clk.

CHICAGO, ILL.—Bids are asked until 8 p. m., Sept. 8, for laying water mains in certain streets, etc. L. E. McGann, Pres. Bd. Local Improvements.

ARCADIA, WIS.—An election will be held Sept. 11 to vote on the question of issuing bonds for the proposed works.

CHARITON, IA.—The question of building works to cost $50,000 is again being considered.

IDA GROVE, IA.—This place is reported to have voted Sept. 1 on the question of issuing $5,000 in bonds for a stand-pipe and water-works improvements.

IOWA CITY, IA.—The Iowa City Water Co. proposes to put in a new 5,000,000-gallon pump, a 200-HP. boiler, engine, a 500-ft. filter gallery, new mains, etc., at a cost of $25,000. Jay Chatham, Supt.; G. A. Garretson, Acting Pres., San Diego, Cal.

TITONKA, IA.—The question of building works is being considered.

FOREST CITY, NEB.—The question of building works is being considered.

BELLEVILLE, KAN.—The question of the city owning its works and electric plant is being considered. Geo. H. Crouse, Supt.

ST. LOUIS, MO.—The Hill-O'Meara Construction Co. has secured the contract for a new gate at the inlet tower, at the Chain of Rocks pumping station, at about $12,000.

ROCK SPRINGS, TEX.—The Rock Springs Water Supply Co. has been incorporated with a capital stock of $6,000 by A. A. McDonnell, W. A. Johnson and B. M. Smart.

RICHMOND, MO.—W. Kiersted, Engr., Water-Works Bldg., Kansas City, Mo., writes us that because of the fact that bidders did not guarantee results in removing iron from the water supply, and also because the engineer declined to ask them to do so, action on the two bids received Sept. 1 was delayed.

ELDORADO, ARK.—It is proposed to erect works and an electric plant, according to reports.

STILLWATER, OKLA.—This city is considering the question of building works.

DENVER, COLO.—At the fall election it is proposed to have the city vote on the question of purchasing the works or erecting a new plant at a cost of $3,000,000.

MORO, ORE.—This place will soon sell $7,500 of bonds for the purchase of the works, etc.

OCEANSIDE, CAL.—The city trustees have voted for a water supply from the Pauba reservoir, to be constructed by Geo. Chaffey.

REDLANDS, CAL.—The South Mountain Water Co. has been incorporated, with a capital stock of $75,000, all paid in, by A. Gregory, T. Y. England and O. A. Worthing.

BRANTFORD, ONT.—The water commissioners have decided to put in a new pump to increase the size of the supply main, and to build filter galleries, at a cost of about $50,000.

KAMLOOPS, B. C.—Bids are asked until Oct. 1 for extending the works at a cost of $27,000. There will be required two new boilers, a pumping engine, 6,000 ft. of mains, etc. J. J. Carment, Cy. Clk.; Wills Chipman, Engr., Toronto, Ont.

SOUTHBORO, ENG.—Bids are asked until Sept. 14 for sinking a well to the depth of 103 ft., and 10 ft. in diameter, and for driving headings and putting down boreholes sufficient to develop a yield of 700,000 gallons per 24 hours, and the contractor will be required to provide temporary pumping plant capable of dealing with this quantity of water. Geo. Hodson, Engr.; Philip Hanmer, Clk. Council.

IRRIGATION.

HOUSTON, TEX.—It is stated that the Trinity Rice Land & Irrigation Co. will soon begin work on the proposed canal, which will be 125 ft. wide and 18 miles long, extending from Turtle Bayou, six miles from Wallisville, to Winnie, on the Gulf & Interstate R. R. William Cameron, Liberty, is representing the company.

OAKLAND, CAL.—Local papers state that the government will expend about $80,000 for the purpose of diverting the course of the Sansal Creek at this place. It is proposed to build a temporary channel parallel with the tidal canal for an outlet to the creek until the tidal canal can be completed.

TASHKEND, ASIATIC RUSSIA.—It is stated that engineers representing an American syndicate are at Tashkend, in Syr-Darya, with plans for reclaiming the region of Turkestan known as Hunger Steppe by a system of canals and irrigation works in connection with Syr-Darya. As a guarantee of the enterprise, which is estimated to cost 150,000,000 roubles, the American concessionaires will receive a long lease of the Steppe.

NEW COMPANIES.—Flagstaff Drainage & Improvement Co., Flagstaff, Ariz.; $35,000; Geo. Babbitt, D. J. Brannen, J. A. Vail.

Trinity Irrigation Co., Dallas, Tex.; $20,000; W. A. Shaw, W. L. Hall, E. W. Foster.

The Arlington Canal Co., Phoenix, Ariz.; $12,000; M. E. Clanton, J. M. Mullen, J. B. Montgomery; to reclaim a large tract of desert land in southwest part of Maricopa county, close to the Buckeye Canal in the Gila Valley.

SEWERAGE.

AUGUSTA, ME.—City Engineer W. B. Getchell, with Ira E. Getchell, of Waterville, Me., as consulting engineer, has been ordered to prepare plans for sewers for this city. There will be about 30 miles of sewers. Next year it is proposed to construct a portion of this work.

CAMBRIDGE, MASS.—The city has begun work on the proposed new sewers to cost $400,000. The section, on which the city is now working, will cost $103,000, and is to be completed in the spring. The city will do the work by day-labor. L. M. Hastings, Cy. Engr.; H. A. Carson, Consult. Engr., Boston.

WEST HARTFORD, CONN.—The question of more sewers is being considered.

BUFFALO, N. Y.—Bids are asked until Sept. 15 for constructing 27 and 24-in. brick and 12 and 10-in. pipe sewers in two streets. R. G. Parsons, Secy. Bd. Pub. Wks.

SYRACUSE, N. Y.—It is proposed to construct sewers in several streets, at a cost of about $50,000. George J. Metz, Cy. Clk.

ALLEGHENY, PA.—Bids are asked until Sept. 11 for constructing sewers and paving in certain streets. Robt. McAfee, Dir. Dept. Pub. Wks.

PITTSBURG, PA.—Bids are asked until 2 p. m., Sept. 8, for constructing 24 to 12-in. pipe sewers in certain streets. E. M. Bigelow, Dir. Dept. Pub. Wks.

ATHENS, GA.—The board of trustees of the state normal school will ask the legislature for authority to build a system for the school buildings and grounds.

DALTON, GA.—The town will vote this fall on the question of putting in a system and an electric plant, according to reports. Population, 5,000.

NEW ORLEANS, LA.—The Mayor has appointed the following as commissioners for the proposed system to cost about $14,000,000: John T. Gibbons, Wm. Adler, Dennis Lanaux, Cartwright Eustis, Frank A. Daniels, Chas. A. Janiver and Wm. Atkinson.

CLEVELAND, O.—The board of control has approved an ordinance for an intercepting sewer in Glenville.

LAKEWOOD, O.—Henry C. Elliott, Chn. Comn., writes us that the city wants a filter at the end of an iron interceptor pipe, for the house sewage of 1,000 persons, which will purify this sewage and also be able to treat the probable increase of population during the next five years.

LORAIN, O.—Bids are asked until Sept. 27 for furnishing the materials and for constructing sewers in two streets; two bonds of $1,000 each. G. A. Resek, Cy. Clk.

PORT CLINTON, O.—Bids are asked until Sept. 16 for constructing sewers in two streets; two bonds of $500 each. Geo. F. Meyer, Jr., Cy. Clk.

EVANSVILLE, IND.—It is proopsed to construct main sewers in two streets. G. W. Swearingen, Clk. Bd. Pub. Wks.

WARSAW, IND.—The council has accepted the plans for a system prepared by Frank T. Oakley, 824 The Spitzer, Toledo, O. It is probable that bids for the work will soon be asked. Address Councilmen J. B. Walson and Richardson.

HOLLAND, MICH.—Efforts are being made to have the council take up the question of immediately constructing a system.

UNION CITY, MICH.—The council has decided to grant a franchise for a system to a local company.

SYCAMORE, ILL.—Bids are asked until Sept. 11 for constructing about 5,000 ft. of sewer, as stated in our advertising columns. D. A. Syme, Mayor; S. T. Armstrong, Engr.-in-Charge.

LAKE BLUFF, ILL.—The town is having plans prepared for a system, discharging into Lake Michigan, and it is expected that construction will be commenced this fall. W. T. Griffith, Engr., 1110 Fort Dearborn Bldg., Chicago, Ill.

WHEATON, MINN.—Bids are asked until Sept. 14 for furnishing the materials and for constructing pipe sewers. M. B. Haynes, Engr., Mankato, Minn.; A. J. Fitzgerald, Recdr.

ST. JOSEPH, MO.—The council will at once begin the construction of the Blacksnake sewer, at a cost of $5,000.

TAYLOR, TEX.—The council, it is reported, is prepared to let the contract for building a system. R. J. Eckhardt, Chn. Com.

CORVALLIS, ORE.—Bids are asked until Sept. 15 for constructing two sewers at the Agricultural College. E. P. Greffoz, Police Judge; J. D. Daly, Secy. Bd. Regents.

NEVADA CITY, CAL.—The following bids were received by the board of city trustees Aug. 24 for furnishing the materials and for constructing the sewers: Material, Division No. 1, sewer pipe and branches—N. Clark & Son, $10,421; Legg & Shaw Co., $9,807; Gladding, McBean & Co., $9,844. Division No. 2, iron pipe—C. Froelich, cast iron, $1,193; C. D. Vincent, asphalt lock-joint, $1,052; C. D. Vincent, kalsomine and asphalt lock-joint, $1,409. Division No. 3, flush tanks—N. Clark & Son, Walker tank, $1,040; Frank Walker, Walker tank, $832; Legg & Shaw Co., Miller tank, $780; A. R. Smith, Alameda, $962. Division No. 4, cast-iron covers for manholes, etc.—N. Clark & Son, $1,556; Martin, Muir & Co., $1,373; W. J. Smith, $1,602. Division No. 5, brick—J. J. Hanley, $1,200. Division No. 6, cement—N. Clark & Son, $1,080; Legg & Shaw Co., $850. Labor, Division No. 1—C. D. Vincent, $5,339; R. J. Tremaine, $4,504; W. J. Smith, $3,402; R. C. Mattingly, $6,501. Division No. 2—C. D. Vincent, $5,767; W. J. Smith, $3,330; R. C. Mattingly, $7,471. Division No. 3—C. D. Vincent, $9,317; W. J. Smith, $4,175; R. C. Mattingly, $7,471. Division No. 4—C. D. Vincent, $4,865; W. J. Smith, $3,019; R. C. Mattingly, $5,395.

SACRAMENTO, CAL.—M. J. Desmond, Cy. Clk., informs us that the following bids were received Aug. 28 for furnishing the materials and for constructing a sewage pumping station: J. A. Cunningham, 114 I St., $10,000; Schaw, Ingram, Batcher & Co., 215 J St., $10,400; Miller & Mathews, 1111 9th St., $10,800.

FLAGSTAFF, ARIZ.—Bids are asked until Sept. 11 for furnishing the materials and for constructing sewers for the Flagstaff Drainage & Improvement Co. The work will be begun Sept. 18. The company has just been granted a 50-year franchise for a system. Capital stock, $50,000, of which $15,000 is paid in. W. H. Power, Engr., Flagstaff; T. E. Pullam, Secy.

ROSWEL, N. MEX.—The town trustees propose to engage an engineer to prepare plans for a system, according to reports.

WINNIPEG, MAN.—Bids are asked until noon, Sept. 8, for constructing about 10 miles of drain. Robt. Watson, Minister Pub. Wks.

VANCOUVER, B. C.—This city has voted to issue $150,000 in bonds for extending the system.

MONTREAL, QUE.—Bids are asked until Sept. 13 for furnishing automatic valves for drains to prevent flooding of cellars. P. W. St. George, Cy. Surv.

SALTILLO, MEX.—The San Antonio Sewer Pipe Co., San Antonio, Tex., is reported to have been awarded the contract for the sewer pipe for the proposed system, at about $60,000.

GARBAGE DISPOSAL—STREET CLEANING

ALBANY, N. Y.—The committee has submitted its report, and recommends the establishing of a Dixon crematory and to accept the pending contract with the Albany Reduction Co. for collecting and disposing of the garbage. The city is to have the privilege of purchasing the plant after a term of five years. Dr. F. C. Curtis, Chn. Com., Bd. of Health.

CHESTER, PA.—The question of a better method of garbage collection and disposal is being considered.

WASHINGTON, D. C.—Warner Stutler, Supt. Street Cleaning, has asked for an appropriation of $300,400 for his department, an increase over last year's amount of $60,000. The superintendent has recommended the more systematic collection of ashes, etc., for which an appropriation of $40,000 should have been made.

LOUISVILLE, KY.—We are informed that the following submitted bids Aug. 29 for a garbage crematory, the bids were all rejected, however, as being considered too high: The American Sanitary Engineering Co., the Dixon Garbage Crematory Co., and the Thackeray Incinerating & Fertilizing Co.

OAKLAND, CAL.—Bids are asked until Sept. 13 for sweeping and cleaning the paved streets during the year ending June 30, 1900. R. F. Jackson, Secy. Bd. Pub. Wks.

STREETS AND ROADS.

BOSTON, MASS.—The Massachusetts Highway Commission has awarded a contract for six steam road rollers to the Buffalo Pitts Co., Buffalo, at $1,985 each; other bids being: Julian Scholl & Co., New York, $2,850; Harrisburg Foundry & Machine Works, Harrisburg, $2,790.

MERRIMAC, MASS.—We are informed that at a meeting Aug. 24 it was decided to ask for estimates for surveying, grading and macadamizing different streets in this town. E. D. George, Chn. Com.

WEST STOCKBRIDGE, MASS.—Bids are asked until Sept. 9 for constructing about 2,800 ft. of highway in south part of this town. Wm. H. Barnes, Engr.

CHESTER, CONN.—Engineer Daboll, New London, is preparing plans for macadamizing the road from Dr. Turner's corner to the Deep River line. Bids will be asked upon completion.

HARTFORD, CONN.—The contract for laying sidewalk on Park St. has been awarded to Seth Belden & Son, at $7,000.

BUFFALO, N. Y.—Bids are asked until Sept. 15 for repaving Utica St., from Massachusetts to Rhode Island Sts.; also until Sept. 7 for paving Forest Ave., 38 ft. wide, from West to Elmwood Ave., and 42 ft. wide, from Elmwood to Delaware Ave. R. G. Parsons, Secy. Bd. Pub. Wks.

CORTLAND, N. Y.—Local papers state that the residents of Groton Ave. will present a petition at the next meeting of the village trustees for the pavement of Groton Ave.

ONEIDA, N. Y.—The question of paving Broad St. with asphalt is being considered by the village officers.

SYRACUSE, N. Y.—The council has awarded the contracts for paving Canal and North Geddes Sts. with brick to J. N. Bustin.

TROY, N. Y.—Bids are asked until Sept. 12 for paving Earl, Mount, William and Bond Sts. with brick. E. Ogden Ross, Secy.

GARFIELD, N. J.—Bids are asked by the borough clerk until Sept. 9 for constructing about 10,000 ft. of curb and cobblestone gutter, and about 2,500 ft. of flag sidewalks and crosswalks.

JERSEY CITY, N. J.—The question of asphalting Newark Ave. is being considered by the merchants of that street.

NEWARK, N. J.—The question of paving several streets with asphalt, as petitioned by the citizens, is being considered by the municipal authorities.

ALLEGHENY, PA.—Bids are asked until Sept. 11 for grading, paving and curbing Guckert Alley, Third Ward. Robert McAfee, Director Com. Pub. Wks.

OIL CITY, PA.—The council on Aug. 14 voted to pave Wyllys St. with brick.

PHILADELPHIA, PA.—The work of repaving the city's streets, for which $2,000,000 has been provided for in the general loan bill, will begin soon. About $250,000 has already been expended for the improvements of 40 streets.

PITTSBURG, PA.—Bids are asked until Sept. 8 for paving Beatty and Wightman St., Braddock Ave. and Choate Alley. Edward M. Bigelow, Dir. Dept. Pub. Wks.

MILFORD, DEL.—The contract for paving South Walnut St. with brick has been let at a cost of $2,500.

CUMBERLAND, MD.—It is stated that Mayor Kean has signed the ordinance passed Aug. 28 authorizing the repaving of North Mechanic St., from Mill St. to the George's Creek R. R.

BRUNSWICK, GA.—The question of paving New Castle St. will be discussed at the next council meeting.

AKRON, O.—The council on Aug. 28 decided to pave East Market St. with asphalt, instead of brick.

CINCINNATI, O—Bids are asked until Sept. 12 for paving Wise Alley, from Cutter St. to its eastern terminus. Geo. H. Spellmire, Clk. Bd. Cy. Affairs.

GALLIPOLIS, O.—Bids are asked until Sept. 18 for paving several streets with brick. T. E. Bradbury, Cy. Clk.

GREENVILLE, O.—Bids are asked until Sept. 29 for improving five streets. Eliot M. Miller, Cy. Clk.

GROVERHILL, O.—Bids are asked until Sept. 18 for grading and macadamizing Main St. E. O. Merrick, Town Clk.

LIMA, O.—Bids are asked until Sept. 13 for paving with brick S. West St., 6,900 sq. yds., Linden St., 1,300 sq. yds. and Water St., 2,500 sq. yds. C. E. Lynch, Cy. Clk.

PLEASANT RIDGE, O.—Bids are asked until Sept. 15 for constructing cement sidewalks throughout this village. Address Hosbrook & Ferris, Engrs., Room No. 429, Pike Bldg., Cincinnati.

TOLEDO, O.—Bids are asked until Oct. 2 for paving Hollywood Ave., Vinton and Beacon Sts. Wm. O. Holst, Cy. Clk.

WELLSTON, O.—Bids are asked until Sept. 11 for the improvement of Pennsylvania Ave., from 2d St. to E St. T. O. Wangler, Cy. Clk.

ZANESVILLE, O.—Bids are asked until Sept. 14 for the purchase of $17,558 in bonds for paving West St. and Manetta Road. C. N. Bainter, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked by the board of public works until Sept. 11 for the paving, etc., of five streets.

CHICAGO, ILL.—Bids are asked until Sept. 8 for curbing, grading and paving in 25 streets. L. E. McGann, Comr. Pub. Wks.

RICHLAND CENTER, WIS.—H. A. Burdick, Chn. Bd. Pub. Wks., writes us that no bids were received for macadamizing Court and Main Sts., and that the work will be held over until next spring.

RIPON, WIS.—Bids are asked until Sept. 28 for about 11,536 sq. yds. of brick pavement on three streets. O. C. Stickles, Chn. Bd. Pub. Wks.

MINNEAPOLIS, MINN.—Bids are asked until Sept. 8 for furnishing 5,000 street signs. L. A. Lydiard, Cy. Clk.

OMAHA, NEB.—Reports state that the council has decided to repave the intersection at the northwest corner of Hanscom Park; estimated cost, $5,000.

ST. JOSEPH, MO.—The question of repaving certain streets is being considered by the authorities. City Engineer Rackliffe's estimate for the work is $100,000.

WINDSOR, MO.—At a recent meeting of the council an appropriation of $200,000 was voted for macadamizing the streets. The work on Pitt St. will be begun at once, it being included in the appropriation.

DENVER, COLO.—The board of public works adopted a resolution Aug. 26 authorizing the issuance of $83,055 in bonds for paving Champa St., according to reports.

SPOKANE, WASH.—It is stated that ordinances were passed Aug. 22 authorizing the pavement of Sprague St., from Monroe to Bernard Sts.

OAKLAND, CAL.—Bids are asked until Sept. 11 for grading County Road No. 1927 in Murray township. Frank C. Jordan, Clk. Bd. Supervisors.

MANUFACTURING PLANTS.

MILLTOWN, ME.—The Cotton Co. at this place will build a new brick mill, 60 x 100 ft., to cost $30,000.

AMBLER, PA.—Plans have been prepared for a new 3½-story hosiery mill, 56 x 80 ft., for Charles and Samuel Sassman, to cost about $15,000.

PHILADELPHIA, PA.—It is reported that the Link Belt Engineering Co. will erect a brick and iron annex building, 60 x 100 ft., to be used as a machine shop.

POTTSTOWN, PA.—Reports state that the Pottstown Iron Co. proposes to raise $1,000,000 to construct a large open-hearth addition to its local basic-Bessemer steel plant, for making repairs necessary to operate its large furnace here and to provide working capital. The furnace has been idle since 1895, and the steel plant since 1893. With both in operation, employment will be furnished for 1,000 men.

SHARON, PA.—E. A. Wheeler and W. W. Shilling, of Sharon, are reported to be about to erect a new plant here for the manufacture of the Wheeler tubular boiler; estimated cost, $50,000.

COLUMBIA, S. C.—W. B. Smith Whaley and others are said to be interested in the erection of a 2-story mill building to be equipped with 5,000 spindles and 180 looms for the manufacture of coarse goods from the waste of other mills.

HOGANSVILLE, GA.—The Hogansville Mfg. Co. has been organized with $75,000 capital stock, to build a mill for the manufacture of cotton duck. Judson F. Mobley, Secy.

PELHAM, GA.—J. L. Hand is organizing the Pelham Mfg. Co. to construct a cotton factory to be equipped with about 5,000 spindles and 160 looms.

LAKE CHARLES, LA.—Work has been begun on a 2-story machine shop, foundry and boiler works building, 110 x 40 ft., for the Calcasieu Iron Works. Other buildings will be erected as needed. Charles McFarlane, Orange, Tex., is interested.

DES MOINES, IA.—The Chamberlain Medicine Co. contemplates the erection of a new factory building this winter at 6th and Park Sts., to cost about $65,000.

BEAUMONT, TEX.—The Beaumont Ice, Light & Refrigerating Co. is said to contemplate the erection of a new ice plant, with a daily capacity of 20 tons, to cost about $28,000.

SAULT STE. MARIE, ONT.—Bids are asked by the Sault Ste. Marie Pulp & Paper Co. until Sept. 20 for the construction of a sulphite pulp mill at this place, as stated in our advertising columns. Tower & Wallace, Archs., Townsend Bldg., New York.

SAULT STE. MARIE, ONT.—Bids are asked by the Lake Superior Power Co., Sault Ste. Marie, for the construction of a stone mill building with timber roof and floors, as stated in our advertising columns.

HONOLULU, HAWAII.—Reports state that the Gillette-Herzog Co., Minneapolis, Minn., has been awarded the contract for erecting a steel sugar factory to be delivered at Honolulu within five months; estimated cost, $35,000. A sugar cane crushing plant is now under construction by the same company for another firm.

CLICHY, FRANCE.—Reports state that a company has been formed at Clichy, with a capital of $125,000, to be known as La Societe Nouvelle de d'Accumulateur Fulman, to engage in erecting electrical works. It is said to be beginning to obtain prices from home and foreign manufacturing firms, with a view of making purchases in the near future.

GAS PLANTS.

BOSTON, MASS.—The New England Gas & Coke Co. will soon supply this city with gas from its plant in Everett, according to reports.

NEWARK, N. J.—The Essex & Hudson Gas Co. proposes to extend its mains through Belleville, according to reports.

CHARLESTON, W. VA.—Bids are asked until Sept. 21 for lighting the streets and alleys for a period of one year. J. H. Ritter, Chn. Electric Light Com.

MANITOWOC, WIS.—On Aug. 21 the council granted a franchise to John Nagle, Julius Lindstedt, Emil Tietgen and others, who will form a company to supply this place with gas. Double mains are to be put in the streets and a plant built at a cost of $80,000.

SAN FRANCISCO, CAL.—Bids will soon be asked by the committee on street lights for lighting the city's streets.

NEW COMPANIES.—American Gas Light Co., Bloomsburg, Pa.; $40,000; W. D. Boyer, Scranton; J. B. Russell, Wilkesbarre; P. R. Bevan, Carbondale.

Santa Clara Oil Co., Coalinga, Cal.; $500,000; J. F. Thompson, H. D. Tuttle, W. H. Haydock.

Interstate Oil Co., New Jersey Corporation Guarantee & Trust Co.'s Bldg., Camden, N. J.; $2,200,000; Thos. S. Moffatt, J. L. Westcott, Rodney D. Wells.

Corbett Oil & Development Co., Fresno, Cal.; $1,000,000; J. Brownstone, G. W. Terrill, E. T. Newell, Selma.

Morning Star Oil Co., Fresno, Cal.; $50,000; W. H. Shafer, M. Vincent, W. B. Good, J. W. Paine.

MISCELLANEOUS CONTRACTS.

DITCH.—Ashland, O.—Bids are asked until Sept. 18 for constructing the Ruggles county ditch. F. L. Niederheiser, Engr.

TELEPHONE.—Savannah, Ga.—Local papers state that the Georgia Telephone & Telegraph Co. proposes to extend its conduits to Park Ave.

BONDS.—Victoria, B. C.—Bids are asked until Oct. 30 for the purchase of debenture bonds amounting to $210,100. Wellington J. Dowler, Cy. Clk.

TELEPHONE.—Morristown, Tenn.—The council has granted the East Tennessee Telephone Co. a franchise to establish an exchange at this place.

LEVEE.—Pine Bluff, Ark.—The contract for constructing a levee in Crittenden county was let Aug. 30 to Brewster Henslee, at $25,000, according to reports.

JETTY.—Los Angeles, Cal.—Bids are asked until Sept. 29 for completing the jetty at San Diego Harbor. Capt. Jas. J. Meyler, U. S. Engrs., Laughlin Bldg.

BULKHEAD.—Stockton, Cal.—Bids are asked for constructing 100 ft. of bulkheads along the north side of Stockton Channel. I. H. Robinson, Cy. Clk.

DREDGING.—Boston, Mass.—Bids are asked until Oct. 6 for dredging in Duxbury Harbor, as stated in our advertising columns. Col. Chas. R. Suter, U. S. Engr.

DITCH.—Oneida, N. Y.—Bids are asked by the commissioner of drainage until Sept. 14 for constructing a drainage ditch several miles long in Lenox and Sullivan.

POSTAL CARS.—Paris, France.—Reports state that the Under Secretary of State proposes to have the government furnished with 67 modern postal cars, each 47 ft. 7 ins. in length.

DRY DOCK.—St. Johns, N. B.—Local papers state that Walter R. Kinipple, Engr., 3 Victoria St., S.W., London, and party, are making inspections of the site of the proposed dry dock.

CANAL.—Rio Plata, Porto Rico.—The U. S. government has granted a concession to Ramonde de Valdez to build a canal and electric power plant on the Rio Plata, about 17 miles from San Juan.

TELEPHONE.—Fort Worth, Tex.—Improvements are being made by the Southwestern Telegraph & Telephone Co. to have its line in this city amounting to about $50,000, according to reports.

CANAL.—Rome, N. Y.—Local papers state that the question of dredging the old canal and making connections with the Erie Canal, for sanitary purposes, is being considered by the State Board of Health.

CEMENT, ETC.—Washington, D. C.—Bids are asked until Sept. 19 for furnishing Portland cement, etc., as stated in our advertising columns. Lieut. John Stephen Sewell, U. S. Engrs., 735 N Capitol St.

REMOVING ROCK.—New York, N. Y.—Bids are asked until Oct. 3 for removing rock in Bronx River, as stated in our advertising columns. Lieut.-Col. W. H. H. Benyaurd, U. S. Engrs. Army Bldg.

RIVER IMPROVEMENTS.—St. John's River, Fla.—Edw. H. and Wm. T. Gaynor, Syracuse, N. Y., have received a contract for improving the St. John's River. The cost of the work will be about $150,000.

RETAINING WALLS, ETC.—Kansas City, Mo.—Bids are asked until Sept. 13 for constructing retaining walls, shelter building and stone steps in Reservoir Park. Geo. E. Kessler, Secy. Bd. Pk. Comrs.

NAVAL SUPPLIES.—Mare Island, Cal.—Bids are asked until Sept. 12 for furnishing at the navy yard, a quantity of Babbitt metal, etc. A. S. Kenny, Paymaster-General, U. S. N., Navy Department, Washington.

DREDGING.—Washington, D. C.—Bids are asked until Oct. 2 for dredging in the Potomac River below this city, as stated in our advertising columns. Lieut.-Col. Chas. J. Allen, U. S. Engr., 681 18th St., N. W.

HYDRAULIC DREDGE.—Grand Rapids, Mich.—The only bid received by Capt. Chester Harding, U. S. Engr., on Aug. 28 for furnishing a hydraulic dredge was submitted by the Bucyrus Co., Milwaukee, Wis., at $55,000.

TUBULAR BOILERS.—Binghamton, N. Y.—Bids are asked until Sept. 19 for furnishing two horizontal tubular boilers at the Binghamton State Hospital, as stated in our advertising columns. John B. Stanbrough, Pres. Bd. Mgrs.

TELEPHONE.—Huntsville, Tenn.—The American Telephone Co. received from the board of aldermen on Aug. 16 a franchise to establish a telephone system. The company will extend its lines to cities and towns in North Alabama.

DOCK.—Boston, Mass.—President Cadman, Fitchburg R. R. Co., is quoted as stating that the company has been successful in bringing the government to its own terms for the enlargement of the dock at the southern boundary of the navy yard.

REMOVAL OF WRECK.—Barnegat Inlet, N. J.—Bids are asked until Sept. 28 for removing the wreck of schooner "George A. Howes," lying about 2¼ miles off this place. Lieut.-Col. C. W. Raymond, U. S. Engrs., Witherspoon Bldg., Philadelphia, Pa.

CANAL WORK.—Albany, N. Y.—The only bids received Sept. 1 by John N. Partridge, Supt. Pub. Wks., for rebuilding locks Nos. 47 and 64 in Oneida county, on the Black River Canal, were submitted by Walter Bradley & Co., Oswego, at $15,776 each.

EXTENSION TO PIER.—Boston, Mass.—Bids are asked until Sept. 9 for building an extension to wharf No. 5 at the navy yard, and until Sept. 16 for building an extension to pier No. 4. Mordecai T. Endicott, Chief of Bureau, Navy Department, Washington.

TELEPHONE.—Toledo, O.—Plans have been prepared by J. F. Butterfield, Chicago, electrical engineer of the Postal Telegraph Co., for the proposed improvements to be made by the company to its system by placing conduits throughout the city to displace the wires overhead.

MINING WORK.—Santa Fe, N. Mex.—Press reports state that H. B. Cartwright sold on Aug. 30 his interest in the Crown Point group of mines, at Bland, for $50,000, to ex-Senator Warner Miller and Wm. E. Spier, New York, who will make extensive improvements on the property.

DREDGING.—San Jose, Cal.—The following bids have been received for straightening the channel of the Guadalupe River: J. McReynolds, $2,470; T. Doyle, $2,499; C. Wehner, $2,397. C. Wehner's bid has been approved and referred to the river improvement committee for acceptance.

CANAL.—Milwaukee, Wis.—Plans for the Oconomowoc Waterways Co.'s proposed canal and lock near Oconomowoc Lake have been completed, and are being inspected by contractors; estimated cost, $50,000. The lock will be 38x11 ft., and the work calls for 7,000 sq. yds. of earth excavation.

DRAINAGE.—Indianapolis, Ind.—At a meeting on Aug. 28 between W. H. Coffin, drainage commissioner, C. J. Danielson, and the Governor, the proposed project for reclaiming the Kankakee valley lands was discussed. The last legislature appropriated $15,000 for the work; estimated cost, $500,000.

DRAINING.—St. Louis, Mo.—The commissioners appointed for the purpose of organizing a drainage district in St. Ferdinand have submitted to the County Court a report for draining the Bonfils bottom; estimated cost, $7,000; amount of dredging, 28,388 cu. yds. The report will be held until Oct. 4, when the County Court will render its decision regarding the matter.

PORTLAND CEMENT.—St. Nazaire, France.—Reports state that the Secretary of State for Foreign Affairs, London, has received information from the consul at La Rochelle, stating that bids are asked by the Administration of the Ponts and Chaussees for supplying a quantity of Portland cement.

RIVER WORK.—Venezuela.—Reports state that the government has granted concessions to Signor Miguel de la Cerra Fuentes, a cigar manufacturer, of Caracas, Venezuela, and Havana, Cuba, for opening and making navigable the Boca de Mangle and Capadere Rivers, State of Falcon. The commissionarie wishes to secure American capital to undertake the work at once. He has been given the use of the land along the rivers for 50 years, there being considerable lumber. Work will be begun as soon as a company can be organized. Others interested are Richard Frowein and Dr. Jose Antonio Rives, of Caracas. Signor Cerra Fuentes will be in New York for about nine days, staying at the Belvedere, 4th Ave. and 18th St.

PORT IMPROVEMENTS.—Jackson, Fla.—Reports state that improvements are to be made to make Jacksonville and the mouth of the St. John's River, the most important port on the South Atlantic. It is proposed to dredge the river between Dame's Point and Mayport. The proposed improvements are to be made by Henry M. Flagler, New York, and associates through their agents at this place. The parties have already purchased the Jacksonville & Atlantic Ry., and also the abandoned Mayport, Pablo Ry. & Navigation Co. The work of rebuilding the road has begun. Large purchases of land on the south side of the St. John's River, from this place to Mayport, and of lands fronting on the Atlantic Ocean as far south as Pablo Beach, have been made by the parties.

CONTRACT PRICES.

LEVEE WORK.—New Orleans, La.—Col. Geo. M. C. Derby, U. S. Engr., received the following bids and let several contracts Aug. 17, 1899, for certain levee work, including five levees in the Lake Borgne district, on the left bank of the Mississippi River, and nine levees in the Barataria district, on the right bank of the river. Barataria district: Upper Magnolia, begins at the Orleans-Plaquemines parish line and extends down stream; average net fill on crown of old levee, 1.8 ft.; average contents per station of 100 ft., 49 cu. yds.; total, 34,800 cu. yds.; Sec. 1, F. M. McLaughlin, 16¾ cts.; Robt. McNamara, Sec. 2, 16 cts. Sec. 3, of 11,600 cu. yds., was not let, as the lowest bid of 16¾ cts. was deemed excessive. Little Rock, begins below Little Rock Settlement and extends down stream. All river side enlargement. Average fill on crown of old levee, 1.2 ft.; 6,000 yds.: H. G. Seelegson, 14.90 cts. Belle Chasse, begins at upper line of Belle Chasse plantation and extends down stream. All river side enlargement. Average fill on crown of old levee, 1.8 ft.; 28,500 yds. Note—A base ditch 4 ft. wide at top and 2 ft. wide at bottom and 5 ft. deep will be dug at the toe of river side slope of the levee from Station 1254 plus 63 to Station 1300: F. M. McLaughlin, 16¾ cts. Alliance, begins below Alliance residence and extends down stream. River side enlargement. Average fill on crown of old levee, 2 ft.; 11,200 cu. yds.: Chas. H. Smith, 14.90 cts. St. Rosalie to Ironton, begins at lower end of the St. Rosalie new levee and extends down stream; land side enlargement. Average fill on crown of old levee, 2.2 ft.; 20,200

cu. yds.: Chas. H. Smith, 15.90 cts. Orange Farm—New levee, 3,705 ft. in length. Begins above Orange Farm residence and extends down stream. Center fill, 6.8 ft.; section 1, 11,500 cu. yds.; section 2, 14,400 cu. yds. Reddick—New levee, 1,577 ft. in length. Begins about 3½ miles below Buras Station and extends down stream. Average center fill, 6.3 ft. Average contents per station of 100 ft., 630 yds. Total, 10,000 cu. yds.: J. B. Fasterling and Gus. H. Schoenberger, 14½ cts. each; John C. Cleary and Robt. McNamara, 16 cts. each, and Charles H. Smith, 18.24 cts. Nairn Extension, begins about 800 ft. below Desher's Lane. Work is river side enlargement. Average contents per station of 100 ft., 650 yds. Total, 8,000 cu. yds.: C. H. Smith, 14.90 cts.; Michael Cullen, 15 cts.; Robt. McNamara, 16 cts., and S. O. Bartolo, 24 cts. Rodey Extension, begins about one-half a mile below Buras Station. River side enlargement. Average fill on crown of old levee, 1.4 ft. Average contents per station of 100 ft., 400 yds. Section 1 contains 7,000 cu. yds. and section 2, 14,200 cu. yds.: Chas. H. Smith, 14.90 cts. both sections; F. M. McLaughlin, 19 cts., both sections; J. B. Fasterling, 19 cts., section 1 and 21½ cts., section 2; Robt. McNamara, 15 cts., section 1. The lowest bids were accepted in all cases. The lettings in the Lake Borgne district were as follows: Chalmette Levee, begins 1,300 ft. above the Chalmette Elevator and goes down stream. It is river side enlargement. Average fill on crown of old levee is 1.5 ft. Average contents per station of 100 ft. is 465 cu. yds.; 1,327 ft. of revetment will have to be removed. Sections 1 and 2 contain 12,500 cu. yds. each: Leonce Roy, 14¾ cts., section 1; C. H. Smith, 15.90 cts., sections 1 and 2; H. G. Seelegson, 16.94 cts., both sections; F. M. McLaughlin, 18 cts., both sections. Kenilworth Levee, begins opposite the Kenilworth sugarhouse and goes down stream. Average fill on crown of old levee, 2.8 ft. Average contents per station of 100 ft., 840 cu. yds. Sections 1 and 2 contain 11,000 cu. yds. each; section 3, 10,000 cu. yds., and section 4, 9,000 cu. yds.: C. H. Smith, 14.90 cts., whole contract; H. G. Seelegson, 16.22 cts., and F. M. McLaughlin, 18 cts. Mary Levee—Average fill, 9 ft. Average contents per station of 100 ft., 1,167 cu. yds. Total, 16,400 cu. yds.: F. W. Gleason, 16 cts.; C. H. Smith, 16.80 cts.; both bids were rejected. Cosse Store Levee, begins one mile below Point-a-la-Hache court house. Harris Levee, begins about one-half mile above Harris' Canal and goes down stream. New levee. Average center fill, 6.0 ft. Average contents per station of 100 ft., 580 cu. yds. Sections 1 and 2 contain 15,000 cu. yds. each.: C. H. Smith, 16.84 cts.; F. M. McLaughlin, 19 cts.; both bids were rejected.

BRIDGE WORK.—Chicago, Ill.—Wm. L. Marshall, U. S. Engr., received the following bids Aug. 28 for manufacturing and erecting superstructure of one single and one double track railway bridge over the Illinois & Mississippi Canal, near Bureau Junction:

Bids Received at Chicago, Ill., Aug. 28, 1899, for Bridge Work on the Illinois & Mississippi Canal.

Quantities.		Toledo Bridge Co.,[1] Toledo, O.	J. G. Wagner Co.,[2] Milwaukee, Wis.	Chicago Bdg. & Iron Co.,[3] Chicago.	King Bdg. Co.[4] Cleveland, O.	Lassig Bdg. & I. Works,[5] Chicago.	Wisconsin Bdg. & I. Co.[6] Milwaukee.
Single track bridge:							
Without any trains: Steel	280,000 lbs.	$0.0441	$0.0415	$0.0409	$0.0474	$0.037	$0.045
" " " Cast iron	9,000 "	.0441	.0415	.0409	.043	.03	.045
Carrying trains: Steel	280,000 "	.045	.0415	.0409	.0484	.037	.0455
" " Cast iron	9,000 "	.045	.0415	.0409	.044	.03	.0455
Double track bridge:							
Without any trains: Steel	490,000 "	.0441	.0415	.0409	.0474	.037	.045
" " " Cast iron	14,500 "	.0441	.0415	.0409	.043	.03	.045
Carrying trains: Steel	490,000 "	.045	.0415	.0409	.0484	.037	.0455
" " Cast iron	14,500 "	.045	.0415	.0409	.044	.03	.0455
Totals: Single and double bridge, without trains.		$34,993	$32,930	$32,454	$37,509	$29,195	$35,708
Single and double track bridge, carrying trains		35,708	32,930	32,454	38,302	29,195	36,104
Single track bridge without trains and double track bridge carrying trains		35,447	32,930	32,454	38,013	29,195	35,960
Single track bridge carrying trains and double track bridge without trains		35,253	32,930	32,454	37,798	29,195	35,852

Dates of beginning and completion of work: [1]Begin on or before Sept. 10 and complete on or before March 1, 1900. [2]Begin on or before Sept. 1, and complete double track bridge on or before March 30; single track on or before April 30, 1900. [3]Will complete work on or before Sept. 1, 1900. [4]Begin in 10 days, and complete in ten months after contract is signed. [5]Begin on or before March 15, 1900; complete double track bridge on or before April 1; single track on or before April 15, 1900. [6]Begin on or before Nov. 1, 1899; complete double track bridge on or before June 1; single track on or before July 1.

MACADAM ROADS.—Boston, Mass.—We are informed that the following contracts have been let for building various roads for the Massachusetts State Highway Commission: A. B. Fletcher, Secy., Boston: Road in Ashfield, let Aug. 17, 1899, to David T. Perry, Shelburne Falls, Mass., at $1.30 a cu. yd. for 1,770 yds. of screened gravel; Barre, let Aug. 24, to John S. Lane & Son, Springfield, Mass., for excavating 320 cu. yds. at 35 cts.; excavation, borrow, 1,540 yds., 40 cts.; ledge excavation, 10 yds., $1.50; rubble masonry laid dry, 14 yds., $4; rubble masonry laid in cement, 15 yds., $8; gravel, 1,000 yds., 60 cts.; shaping, 5,295 sq. yds., 3 cts.; broken stone in place, 1,717 tons, $1.75; 12-in. vitrified clay pipe, 160 lin. ft., 70 cts.; fencing used as guard rail, 450 lin. ft., 25 cts.; side drains, 900 lin. ft., 40 cts.; stone monuments, 14 each, $1.50; 18-in. vitrified clay pipe, 66 lin. ft., $1.25; catch-basins, 1, $25; total, $5,396. Marshfield, let to Arthur Mulrey, Cohasset, Mass.: Excavation, 590 cu. yds., 40 cts.; excavation, borrow, 1,130 yds., 40 cts.; ledge excavation, 10 yds., $2; rubble masonry laid dry, 7 yds., $4; same laid in cement, 13 yds., $7; gravel, 50 yds., 40 cts.; shaping, 4,822 sq. yds., 3 cts.; broken stone in place, 1,318 tons, $1.60; 12-in. vitrified clay pipe, 40 lin. ft., 65 cts.; fencing used as guard rail, 120 lin. ft., 20 cts.; side drains, 50 lin. ft., 40 cts.; stone monuments, 18 each, $1; 24-in. vitrified clay pipe, 32 lin. ft., $2; total, $3,252. North Attleboro, let to Andrew Carberry, East Walpole: Excavation, 450 cu. yds., 48 cts.; excavation, borrow, 100 yds., $1; ledge excavation, 300 yds., $2; rubble masonry laid dry, 21 yds., $5; rubble masonry laid in cement, 11 yds., $8; gravel, screened, 630 yds., $1.80; 12-in. vitrified clay pipe, 30 lin. ft., 75 cts.; fencing used as guard rail, 120 ft., 20 cts.; side drains, 100 ft., 45 cts.; stone monuments, 6, each, $3; 10-in. cast-iron pipe, 36 lin. ft., 96 cts.; total, $2,387. Extra work at following prices; material at cost: Foremen, 35 cts. an hour.; masons, 40 cts.; masons' helpers, 20 cts.; laborers, 16⅔ cts.; double teams and drivers, 45 cts.; single teams and drivers, 30 cts.; side drain extensions, 20 cts. a lin. ft.

DREDGING.—Nandan Creek, Va.—Maj. Thos. L. Casey, U. S. Engr., Norfolk, Va., received the following bids Aug. 29, 1899, for dredging in the Nandan Creek; $5,500 is available for the work: James Caler, Norfolk, 27 cts. a cu. yd., scow measurement; Fred. E. Jones, Norfolk, 29¾ cts.

SEWERS.—Brooklyn, N. Y.—The following bids were received by the department of sewers, New York, Aug. 30 for constructing sewers in six streets:

Bids Received at Brooklyn, N. Y., Aug. 30, 1899, for the Construction of Sewers.

Quantities.		D. J. Creem, Eagle Bldg., Brooklyn.	J. Kelly, 16 Court St., Brooklyn.	P. F. Brennan, New York.	Borough Const'n Co., 189 Montague St., Brooklyn.
78-in. brick sewer	4,300 lin. ft.	$18.50	$21.00	$25.00	$19.00
78-in. " "	1,160 " "	18.50	15.00	20.00	15.50
48-in. " "	920 " "	8.00	7.00	9.00	7.40
36-in. " "	15 " "	6.00	6.00	15.00	4.85
15-in. " "	400 " "	1.10	1.40	1.50	1.20
12-in. " "	3,800 " "	1.00	1.00	1.25	.95
Timber and piling	542,000 ft. B.M.	25.00	20.00	25.00	22.00
Intercepting chamber at Haisey St.	1	1,743.00	1,600.00	550.00	1,260.00
Intercepting chamber at Central Ave.	1	1,000.00	900.00	550.00	1,020.00
Manholes: Class A	7 each	200.00	250.00	250.00	275.00
" " B	12 "	150.00	160.00	200.00	140.00
" " C	5 "	30.00	35.00	40.00	35.00
" " D	39 "	30.00	35.00	40.00	34.00
Steel basins	7 "	40.00	70.00	100.00	95.00
Total		$133,793	$137,630	$165,815	$130,625

PIER.—New York, N. Y.—The following bids for preparing for and building pier at foot of Fordham road, Harlem River, and for removing present pier, were received by the department of docks and piers, Aug. 21, 1899, and contract let to H. L. Speerin:

Bidder.	Removal.	Dredg'g. cts.	Total.
Wm. H. Jenks, 130 Pearl St.	$448	22	$13,379
Bernard Rolf, 39 Cortlandt St.	350	22	15,582
Wm. T. Pitch, 287 4th Ave.	490	21½	13,140
James D. Leary, 17 State St.	190	22	14,900
H. L. Speerin, 11 Broadway	250	22	12,430

BREAKWATER.—Gloucester Harbor, Mass.—We are informed that the following bids were received Aug. 29, 1899, by the U. S. Engineers, Boston, for a breakwater in Gloucester Harbor: Rockport Granite Co., Rockport, Mass.; Pigeon Hill Granite Co., Rockport; Cape Ann Granite Co., Portland, Me.; rubble stone in substructure, a ton, 89 cts.; dimension stone in superstructure, a ton, $3.75; rubble stone in interior of superstructure and in apron, a ton, $1.39; mortar, per cu. yd., $9.50; cramps in place, per lb., 27½ cts.; total, $40,765.

DREDGING.—Doboy Bar, Ga.—We are informed that the following bids were received Aug. 21, 1899, by the U. S. Engineers, Savannah, Ga., for dredging at Doboy Bar: P. Sanford Ross, Inc., Jersey City, N. J., 17.99 cts. a cu. yd.; Rittenhouse R. Moore, Mobile, Ala., 13.9 cts.

DREDGING.—Milford Haven, Va.—Lt.-Col. Chas. J. Allen, U. S. Engr., Washington, D. C., received the following bids Aug. 26, 1899, for 34,000 cu. yds. of dredging in Milford Haven, as advertised in Engineering News: A. M. Clegg & Co., McGill Bldg., Washington, 14¾ cts. a cu. yd.; John Miller, 10th and F Sts., Washington, 17 3-5 cts.; James Caler, Norfolk, Va., 24½ cts.; and P. Sanford Ross., Inc., Jersey City, N. J., 29½ cts.

SUBWAY MATERIAL.—Baltimore, Md.—Dinen Bros. & Co., Baltimore, have been awarded the contract for iron frame castings for the subway, at about $3,000. The American Vitrified Conduit Co. has the contract for some 500 special service boxes, at the following prices: Round, 36-in., $8 each; 34-in., $7; 30-in., $6; square, 36-in., $11.50 each; 34-in., $10; 30-in., $9. The contract for 100,000 ft. of fiber duct for special distribution under pavements awarded to the Fiber Conduit Co., of New York, at 4½ cts. for the 2-in., and 4 9-10 cts. for the 3-in.

INDUSTRIAL NOTES.

THE BALDWIN LOCOMOTIVE WORKS, Philadelphia, has a contract for 20 compound locomotives for the Saxony State Railway.

THE SAN ANTONIO SEWER PIPE CO., San Antonio, Tex., is reported to have a $60,000 sewer-pipe contract from the city of Saltillo, Mex.

THE LANE & BODLEY CO., Cincinnati, is building a large size Corliss engine for shipment to China, and a complete saw-mill outfit for New Zealand.

THE C. W. HUNT CO., New York, is reported about to ship to Copenhagen an $80,000 outfit of coal-handling machinery, including steam shovels, engines, conveyors and automatic railways.

THE BUFFALO PITTS CO., Buffalo, N. Y., has been awarded a contract by the Massachusetts Highway Commissioners, Boston, for six steam road rollers.

GATES & RANDOLPH, 13 Monadnock Block, Chicago, report recent sales of 65 dynamos and motors of the Triumph Electric Co., Cincinnati. The orders came from representative firms in 29 different cities.

THE ROSS VALVE CO., Troy, N. Y., is reported as to ship about Oct. 1 a filter for the water-works at Manila, Philippine Islands. The order was received from the military authorities at Manila, and it is said the filter will weigh 800 lbs.

THE GEORGIA CAR & MFG. CO., of Savannah, Ga., informs us that it is building 1,000 cars for the Chicago & Alton R. R., and is figuring on some contracts for cars for South America. This firm built the Caswell flat-bottom dump car, which was recently described in our columns.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has a contract for constructing an iron bridge for the municipal council of Rangitaka, New Zealand. The company is figuring on several bridges for the projected Formosa railway, one of which will be 2,000 ft. long, and is to cost about $400,000.

W. K. MITCHELL & CO., Betz Building, Philadelphia, is the name of a new co-partnership of engineers and contractors for furnishing and erecting high-pressure steam piping and blast furnace equipment. The company is composed of Messrs. W. K. Mitchell, C. H. Whitney and D. Murdock, all formerly connected with Best Mfg. Co., formerly Best, Fox & Co.

NEW COMPANIES.—National Car Coupler Co., Dover, Del.; $200,000; to manufacture railway cars, locomotives, etc.; H. W. Peacock, W. H. Greenfield, Jr., H. Jones, G. H. Huddel, of Philadelphia; J. H. Baily, Jr., Wilmington, Del.

Taylor Acetylene Gas Co., No. 158 Lexington Ave., Passaic, N. J.; $500,000; Samuel J. Taylor, New York; J. Bjornson, Tremont, N. Y.; Samuel R. Smith, Freeport.

Clark Electrical Co., No. 259 Washington St., Jersey City, N. J.; manufacture telephones, etc.; $100,000; Clayton B. Clark, Edgar L. Ryder.

American Machine Co., Roanoke, Va.; $300,000; A. Jamison, N. P. Perkins, J. O. R. Palmer, Roanoke.

Virginia Portland Cement Co., Corporation Trust Co.'s Bldg., Jersey City, N. J.; $750,000; F. W. White, Dane E. Rianhard.

United States Car Moving Device Co., Portland, Me.; $30,000; to deal in railway supplies; Walter B. Faune, Pres., Arlington Heights, Mass.; Fred. H. Pearson, Treas., Lowell, Mass.

American Construction Co., Alexandria, Va.; $200,000; to conduct a general building and construction business; J. Forest Manning, Pres., of Washington; Louis Weichsler, Vice-Pres., New York; Arthur A. Birney, Treas., Washington.

Leavenworth Construction Co., Kansas City, Mo.; $200,000; to build railways, bridges, etc.; H. W. Wolcott, C. H. Mathews, Kansas City; W. E. Winner, Lansing, Kan.; J. W. Hirst, Omaha, Neb.

Kansas City Mutual Telephone Co., Kansas City, Mo.; $500,000; B. F. Burd, J. L. Lombard, F. H. Turner, all of Kansas City.

Metropolitan Electric Third-Rail & Traction Co., Portland, Me.; $500,000; to control third-rail system of propelling electric cars; G. S. Merrill, G. M. Cleveland, Boston; G. W. Hills, Newton, Mass.; C. W. Woodward, Watertown, Mass.

Humphreys County Telephone Co., Tenn.; $1,000; C. M. Stalling, P. F. Gould, R. A. Jackson, W. H. McConley and John A. Box.

Cumberland Mining Co., Davidson County, Tenn.; $2,500; J. G. Tinsley, T. G. Tinsley, O. D. Ledoux.

Colon Consolidated Co., New York; $30,000; to operate electric light, telephone and ice plants in Colon, Cuba; Jose Machado, Plainfield, N. J.; Marino G. Poole, New York.

Continental Electric Telephone Co., Chicago; $50,000; to manufacture telephone and electrical apparatus; G. F. Stitet, T. Lidberg, A. I. Coyne, of Chicago.

Wilkins Automobile Co., San Francisco, Cal.; $100,000; to manufacture and deal in horseless wagons; J. M. and A. Wilkins, W. Newman, A. Tahrman, R. Jordan, of San Francisco.

Australian General Electric Co., Schenectady, N. Y.; $50,000; to deal in electrical supplies, E. A. Carolan, E. O. Clark, J. A. Carr, H. W. Darling, M. F. Westover, of Schenectady.

The W. R. Stubbs Contracting Co., Chicago; $100,000; general contracting; W. T. Wetmore, J. H. Chaney, C. L. Peterson, of Chicago.

Fortuna Republica Gold Mining Co.; $3,000,000; to do a general mining business; Edward B. Hawkins, New York; Matthew H. Picking and Harry H. Picking, East Orange, N. J.

Lawler Water, Feed & Damper Regulator Co., New York; $10,000; J. J. Lawler, Mt. Vernon, N. Y.; O. F. Gleason, Arlington, N. J.

American Cement Co., N. J. Corporation Guarantee & Trust Co. Bldg., Camden, N. J.; $2,100,000; to manufacture cement; Frank R. Hansell, John Walmsley, Jas. M. Kenyon.

Continental Zinc & Lead Mining & Smelting Co., 76 Montgomery St., Jersey City, N. J.; $1,500,000; Chas. L. Garrick, Michael Gavin, second, John Carlsen, all of Jersey City.

Boston & Missouri Mining Co., Portland, Me.; $1,000,000; to deal in mines and mining machinery; Wm. Allen Hayes, Pres., Nahant, Mass.; Harry R. Virgin, Treas., Portland, Me.

National Telephone Device Co., San Francisco, Cal.; $100,000; to manufacture and sell inventions of all kinds; J. Kahn, C. K. Rosenberg, A. M. Brown, M. Schlesinger, N. A. Judd, all of San Francisco.

Colonial Electric Co., Youngstown, O.; $100,000; to deal in electrical supplies, etc.; T. H. Gillmer, E. W. Gillmer, E. E. Roberts, E. E. Nash, W. C. Wood, all of Youngstown.

Mount Vernon Telephone Co., Mount Vernon, Ia.; $10,000; C. W. Kepler, E. B. Wilcox, Jas. E. Harlan, and A. C. Tenney.

Pneumatic Railway Ditcher & Grader Co., Edwardsville, Ill.; $250,000; W. B. Doddridge, C. S. Pullman, and E. F. Goltra, with offices in Venice, Ill.

Hubbard Brake Co., Wilmington, Del.; $1,000,000; to manufacture car brakes and car brake appliances; Charles Gilpin, Jr., Philadelphia; Moses G. Hubbard, Chester, Pa.; Geo. E. Pratt, Ridley Park, Pa.

Flame Proof Co., Corporation Trust Co.'s Bldg., Jersey City, N. J.; $100,000; to manufacture fireproofing materials; Francis V. S. Oliver, Henrietta F. Born, Guido Hecker.

New Era Machine Mfg. Co., 189 Market St., Newark, N. J.; $500,000; to manufacture machinery; W. H. Bogert, Philip Miller, Benj. G. Pratt, all of Newark, N. J.

Columbia Metal Co., 207 Market St., Camden, N. J.; $500,000; to manufacture and deal in metals; Jas. U. Robertson, Tolcroft, Pa.; Chas. F. Sesinger, Philadelphia, Pa.; J. Willard Morgan, Camden, N. J.

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